Optional Kits available through your Distributor:

Flipper Rebuild Kit (Left) 500-6307-10

Flipper Base Plate Kit (Left) 515-6617-01

Kit includes: *Flipper Base Plate (Left) pre-threaded with securing hardware; see the Flipper Drawing for view.*

Flipper Rebuild Kit (Right) 500-6307-00

Flipper Base Plate Kit (Right) 515-6617-00

Kit includes: *Flipper Base Plate (Left) pre-threaded with securing hardware; see the Flipper Drawing for view.*

Pinball Location Maintenance Standard Kit (for NBA Pinball) 502-6002-A9

Standard Kit includes : *8 oz. Novus Wax #2 Fine (Red) (**675-0003-01**), Cloth, Rubber Rings (used above playfield), Bulbs (Bulb quantities vary and is limited to 25 per type), Fuses (1/per type) and 4 Pinballs.* ***Note:*** *Quanties, sizes and contents subject to change without notice.*

Pinball Location Maintenance Deluxe Kit (for NBA Pinball) 502-6003-A9

Deluxe Kit includes : *Pinball Location Maintenance Standard Kit as described above plus a quantity of Flipper Rebuild Kits.* ***Note:*** *Quantity varies which equals the same quantity of flippers used in this game.*

▲ THIS GAME KIT INCLUDES (2) FLIPPER REBUILD KITS ▲

Plastics*Kit (for NBA Pinball) 803-5000-A9

Plastics Kit includes: *Plastic Sets (830-6101-XX)*

Decals*Kit (for NBA Pinball) 802-5000-A9

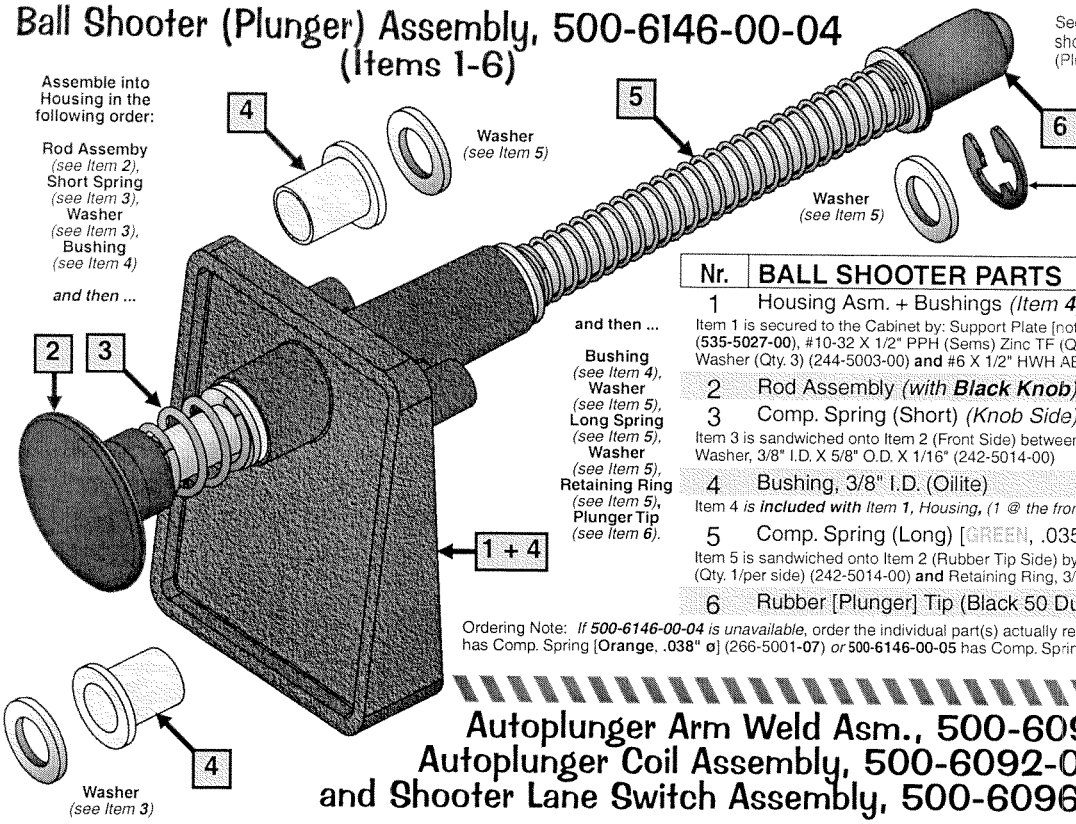
Decals Kit includes: *Decal Set (820-6557-XX)*

Mylar*Kit (for NBA Pinball) 802-5001-A9

Mylar Kit includes: *Full Mylar (820-5999-A9)*

****Attention:*** *No individual Plastic or Decal can be ordered separately, unless noted otherwise. Plastics & Decals are subject to change without notice during and / or after production. Key Fobs subject to availability and may or may not be included in the plastic set. All designs, shapes & pieces used subject to change without notice. Kit contents subject to change. Service Bulletin(s) will announce any critical changes, if warranted. The last 2-digits shown on plastics or decals are for reference only.*

Ball Shooter (Plunger) Assembly, 500-6146-00-04 (Items 1-6)


Assemble into Housing in the following order:
Rod Assembly (see Item 2),
Short Spring (see Item 3),
Washer (see Item 3),
Bushing (see Item 4)
and then ...
Washer (see Item 5)
Washer (see Item 5)
Retaining (E-) Ring (see Item 5)
and then ...
Bushing (see Item 4),
Washer (see Item 5),
Long Spring (see Item 5),
Washer (see Item 5),
Retaining Ring (see Item 5),
Plunger Tip (see Item 6).
1 + 4
Washer (see Item 3)

Securing Hardware for Items 3 & 5 are also shown separated from the Ball Shooter (Plunger) Assembly for clarity.

Nr.	BALL SHOOTER PARTS	QTY.	SPI PART Nr.
1	Housing Asm. + Bushings *(Item 4)*	1	535-5067-02
	Item 1 is secured to the Cabinet by: Support Plate [not included with Item **1** *or* Assembly] (**535-5027-00**), #10-32 X 1/2" PPH (Sems) Zinc TF (Qty. 3) (237-6033-00), #10 Split Lock Washer (Qty. 3) (244-5003-00) **and** #6 X 1/2" HWH AB (Zinc) Red (Qty. 2) (234-5001-02)		
2	Rod Assembly *(with **Black Knob**)*	1	515-6557-00
3	Comp. Spring (Short) *(Knob Side)*	1	266-5010-00
	Item 3 is sandwiched onto Item 2 (Front Side) between the knob and by: Washer, 3/8" I.D. X 5/8" O.D. X 1/16" (242-5014-00)		
4	Bushing, 3/8" I.D. (Oilite)	2	280-5010-00
	Item 4 *is **included with** Item **1**, Housing, (1 @ the front; 1 @ the back)* ***as shown.***		
5	Comp. Spring (Long) [GREEN, .035" ø]	1	266-5001-04
	Item 5 is sandwiched onto Item 2 (Rubber Tip Side) by: Washer, 3/8" I.D. X 5/8" O.D. X 1/16" (Qty. 1/per side) (242-5014-00) **and** Retaining Ring, 3/8" ø Shaft (270-5012-00)		
6	Rubber [Plunger] Tip (Black 50 Duro)	1	545-5276-00

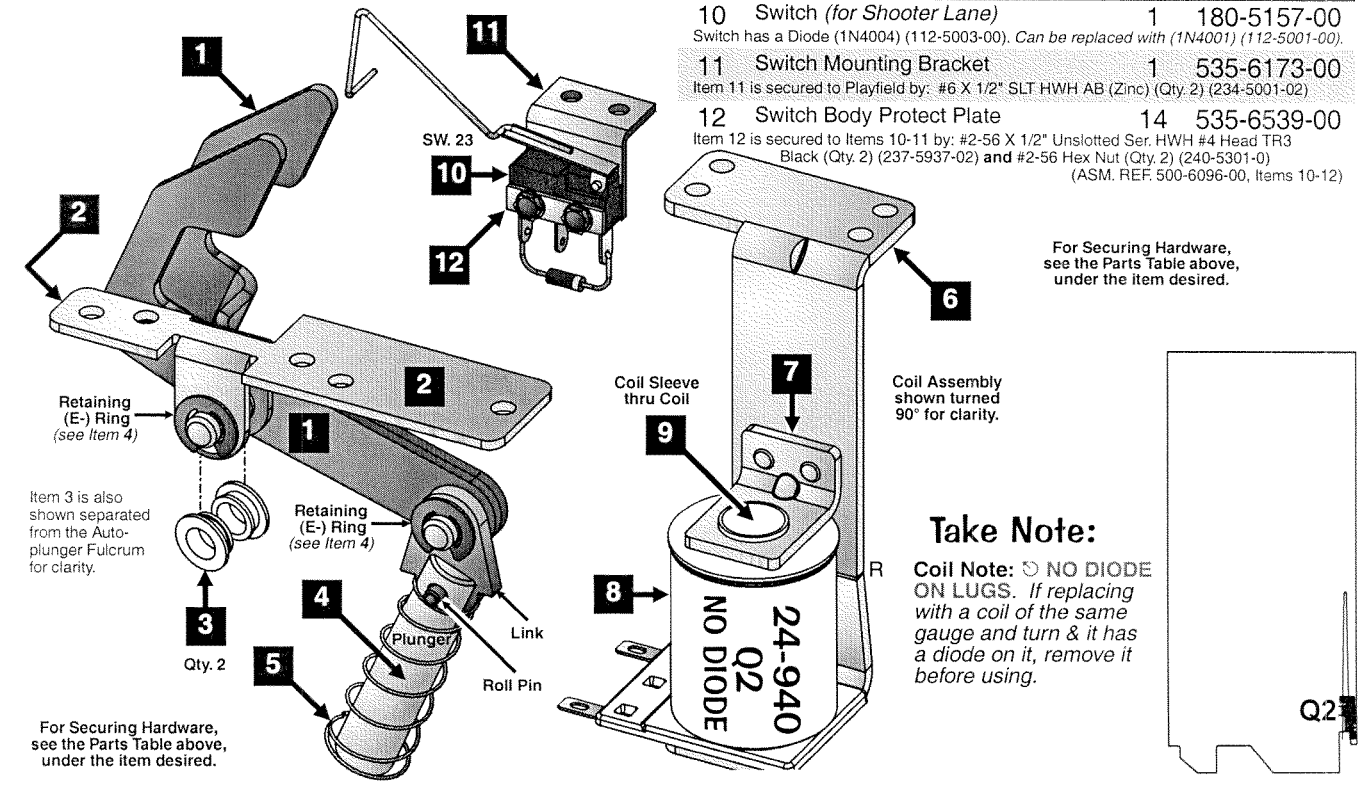
Ordering Note: *If **500-6146-00-04** is unavailable,* order the individual part(s) actually required. ... Identical to **500-6146-00-07** has Comp. Spring [**Orange**, **.038" ø**] (266-5001-**07**) *or* **500-6146-00-05** has Comp. Spring [**Blue**, **.031" ø**] (266-5001-**05**).

Autoplunger Arm Weld Asm., 500-6091-00 (Items 1-5), Autoplunger Coil Assembly, 500-6092-02-ND (Items 6-9) and Shooter Lane Switch Assembly, 500-6096-00 (Items 10-12)

Nr.	AUTOPL. ARM WELD PARTS	QTY.	SPI PART Nr.
1	Arm Weld Assembly	1	515-6526-00
	Item 1 is secured to Item 2 by: Retaining Ring, 1/4" ø Shaft (Qty. 1) (270-5002-00)		
2	Autoplunger Fulcrum	1	535-7697-00
3	Nyliner, 1/4" (Thomson #4I1-FF)	2	545-5423-00
4	Plunger & Link Assembly	0	511-5183-00
	Item 4 is secured to Item 1 by: Retaining Ring, 1/4" ø Shaft (Qty. 1) (270-5002-00) *For Individual Items use :* Plunger 1.81" Lg. (**530-5025-05**), Plunger Link (**545-5293-00**) **and** Roll Pin 1/8" ø x 5/8" Lg. (**251-5008-00**)		
5	Compression (Return) Spring	1	266-5020-00
	(ASM. REF. 500-6091-00, Items 1-5)		

Nr.	AUTOPLNGR. COIL PARTS	QTY.	SPI PART Nr.
6	Autoplunger Coil Bracket Assembly	1	515-6527-00
	Items 1 & 6 are secured below the P/F by: #8 X 1/2" SHWH AB (Zc.) (Qty. 9) (234-5101-00)		
7	Coil Retainer Bracket	1	535-5203-03
	Item 7 is secured to Item 6 by: #8-32 X 1/4" PPH MS (Sems) Zinc (Qty. 2) (232-5300-00)		
8	Coil, 24-940 [NO DIODE]	1	090-5036-ND
	COIL DOES NOT REQUIRE A DIODE. SEE ↻ COIL NOTE BELOW FOR DETAILS.		
9	Coil Sleeve	1	545-5031-00
	(ASM. REF. 500-6092-02-ND, Items 6-9)		

Nr.	SWITCH PARTS	QTY.	SPI PART Nr.
10	Switch *(for Shooter Lane)*	1	180-5157-00
	Switch has a Diode (1N4004) (112-5003-00). *Can be replaced with (1N4001) (112-5001-00).*		
11	Switch Mounting Bracket	1	535-6173-00
	Item 11 is secured to Playfield by: #6 X 1/2" SLT HWH AB (Zinc) (Qty. 2) (234-5001-02)		
12	Switch Body Protect Plate	14	535-6539-00
	Item 12 is secured to Items 10-11 by: #2-56 X 1/2" Unslotted Ser. HWH #4 Head TR3 Black (Qty. 2) (237-5937-02) **and** #2-56 Hex Nut (Qty. 2) (240-5301-0)		
	(ASM. REF. 500-6096-00, Items 10-12)		


SW. 23
Retaining (E-) Ring (see Item 4)
Item 3 is also shown separated from the Auto-plunger Fulcrum for clarity.
Qty. 2
Retaining (E-) Ring (see Item 4)
Plunger
Link
Roll Pin
For Securing Hardware, see the Parts Table above, under the item desired.
Coil Sleeve thru Coil
For Securing Hardware, see the Parts Table above, under the item desired.
Coil Assembly shown turned 90° for clarity.
24-940
Q2
NO DIODE
R
Q2

Take Note:

Coil Note: ↻ NO DIODE ON LUGS. *If replacing with a coil of the same gauge and turn & it has a diode on it, remove it before using.*

Assemblies & Ramps

4-Ball Trough Assembly, 500-6318-24-ND (Items 1-13)
and Associated Parts: See Parts Table Below.

Ordering Note: Identical to 500-6318-14 with exceptions, see note below Item 13 (Parts Table).

Nr.	4-BALL TROUGH PARTS	QTY.	SPI PART Nr.
1	Ball Trough Outhole Mounting Bracket	1	515-6580-01
	Item 1 is secured below the playfield by: #8 X 1/2" SHWH AB (Zc.) (Qty. 4) (234-5101-00)		
2	Coil Mounting Bracket	1	535-7330-01
	Item 2 is secured to Item 1 by: #8-32 X 3/8" HWH Swage (Sr.) Zinc (Qty. 4) (237-5975-00)		
3	Coil Retaining Bracket	1	535-5203-03
	Item 3 is secured to Item 2 by: #8-32 X 1/4" SHWH (Serr) Zinc (Qty. 2) (237-5975-04)		
4	Coil, 26-1200 [NO DIODE]	1	090-5044-ND
	COIL DOES NOT REQUIRE A DIODE. **SEE ↻ COIL NOTE BELOW FOR DETAILS.**		
5	Coil Sleeve (Short) (Formost #10-7077)	1	545-5076-01
6	Steel & Nylon Plunger Asm. (3.57")	1	515-7309-01
7	Compression (Return) Spring	1	266-5020-00
8	Rubber Bumper (Grommet)	1	545-5105-00
9	Micro Switch **(Roller Actuator, Lite-Force)**	3	180-5119-02
	Item 9 requires: Heat Shrink Tubing 1/8" o PUI-24 (Qty. 1"/per) (605-5006-00)		
	Switch has a Diode (1N4004) (112-5003-00). *Can be replaced with (1N4001) (112-5001-00).*		
10	Switch Body Protect Plate	3	535-6539-00

Nr.	4-BALL TROUGH PARTS	QTY.	SPI PART Nr.
11	Trough Ball Guide Plate	1	535-7801-00
	Item 11 is secured to Item 1 by: 1/4" X 5/16" X .144" I.D. Spacer Tap. (Qty. 1) (254-5014-03) and #2-56 X 1/2" HWH (Ser) UNS #4HD TR3 BO (Qty. 4) (237-5937-02)		
12	Dual OPTO TRANS Board Assembly	1	515-0173-00
13	Dual OPTO REC Board Assembly	1	515-0174-00
	Items 12 & 13 are secured by: #6-32 X 5/8" HWH Swg (Ser) Zc (Qty. 3/per) (237-5976-04)		
	For Individual Items use : Dual OPTO Transmitter Board (Qty. 1) **(520-5173-00)**, Dual OPTO Receiver Board (Qty. 1) **(520-5174-00)**, OPTO PCB Tube Spacer (Brass) (Qty. 3/per) **(530-5308-02) and** OPTO PCB Rubber Grommet (Qty. 3/per) **(545-5518-00)**		

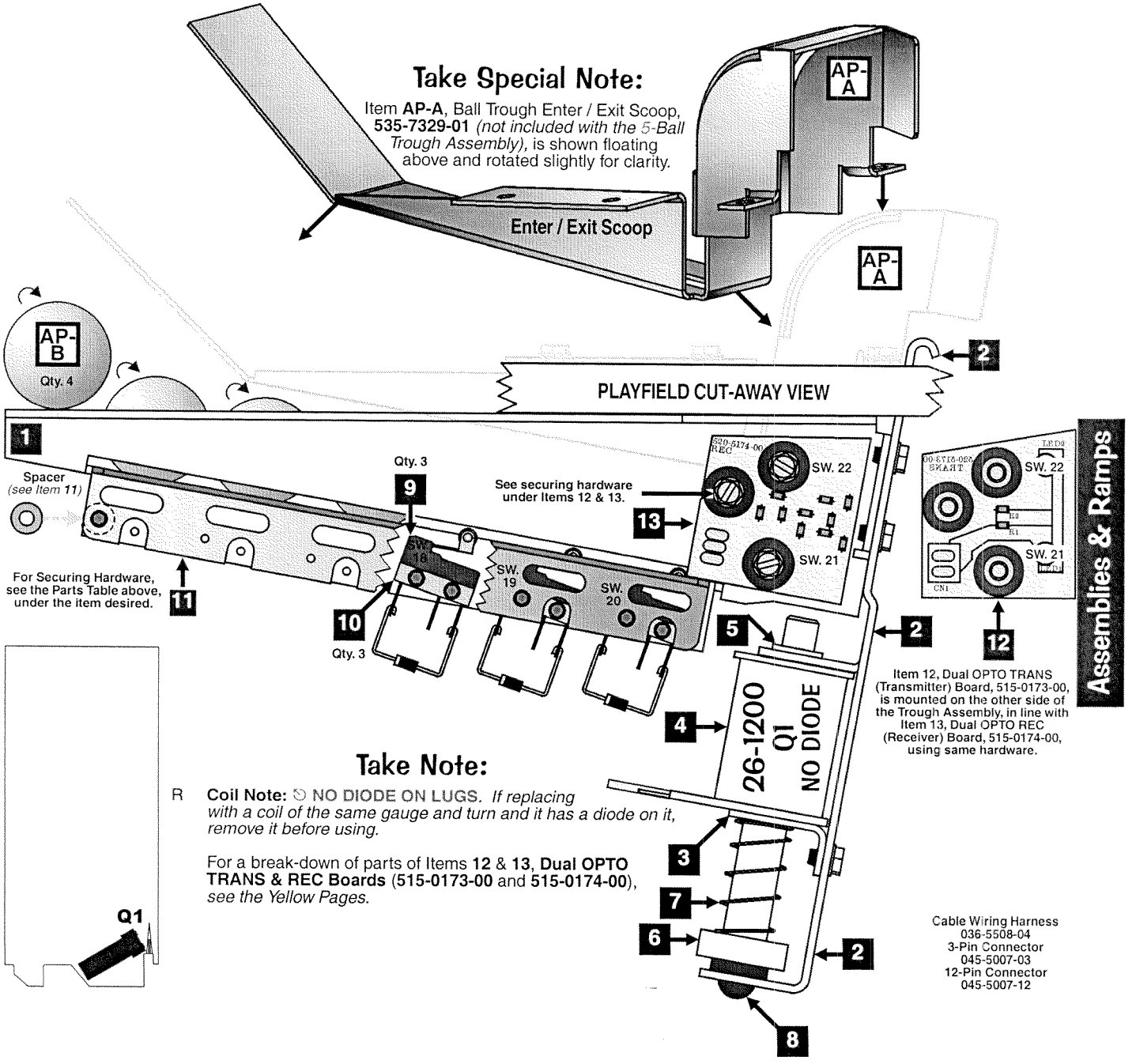
Ordering Note: *If **500-6318-24-ND** is unavailable, order the individual part(s) actually required. This assembly is identical to **500-6318-14-ND**, **-15** or **-25** except for the quantity of **Items 9 & 10** (Qty. 4/per on 5-Ball Trough) **and Item 11**, required when a Magnet Mech. is used in the game. **-ND** means **no diode** on **Item 4**, Coil, 26-1200.*

ASSOCIATED PARTS **ARE NOT INCLUDED** WITH THE ABOVE ASSEMBLY.

Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
AP-A	Ball Trough Enter / Exit Scoop	1	535-7329-01
	Item AP-A secured to the playfield by: #8 X 1/2" SHWH AB (Zinc) (Qty. 4) (234-5101-00).		

Take Special Note:

Item **AP-A**, Ball Trough Enter / Exit Scoop, **535-7329-01** *(not included with the 5-Ball Trough Assembly)*, is shown floating above and rotated slightly for clarity.



Take Note:

R **Coil Note:** ↻ NO DIODE ON LUGS. *If replacing with a coil of the same gauge and turn and it has a diode on it, remove it before using.*

For a break-down of parts of Items **12** & **13**, **Dual OPTO TRANS & REC Boards** (**515-0173-00** and **515-0174-00**), *see the Yellow Pages.*

Flipper (Left) Assembly, 500-6543-15-ND (Items 1-15)
and Associated Parts: Yellow Flipper Bat & Shaft Asm., 515-5133-06-06 (Items AP-A / AP-B)

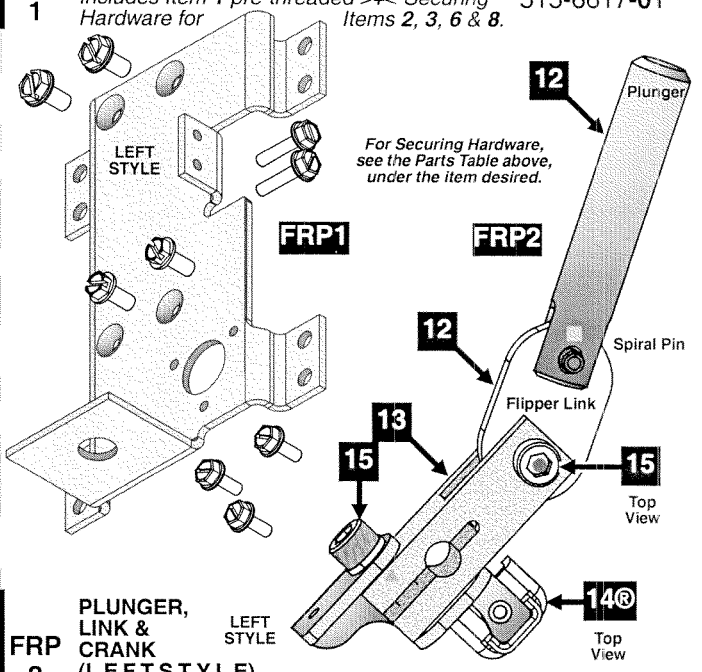
Nr.	FLIPPER (LEFT) PARTS	QTY.	SPI PART Nr.
1	Flipper Base Plate (**LEFT**)	1	*See **FRP1***
	Item 1 is secured below by: #8 X 1/2" SHWH AB (Zinc) (Qty. 8) (234-5101-00) *Ordering Note : Individual Part (**535-7275-01**) is not prethreaded, see Item **FRP1**.*		
2	Flipper Bat Bushing (White Plastic) .25" ø I.D.	1	545-5070-00
	Item 2 is secured to Item 1 by: #6-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 3) (237-5976-02)		
3	Power (EOS / End-of-Stroke) Switch	1	180-5149-00
	Item 3 is secured to Item 1 by: #6-32 X 5/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5976-04)		
4	Sw. Plate/Spring Return Brkt. (**LEFT**)	1	535-7354-**01**
5	Flipper Return Spring	1	265-5035-00
6	Coil Stop Bracket Sub-Assembly	1	515-6308-01
	Item 6 is secured to Item 1 by: #10-32 X 3/8" SHWH Swage (Serr) Zinc (Qty. 2) (237-5985-00) **and** #10 Split Lock Washer (Qty. 2) (244-5003-00)		
7	Spring Washer (17/32" ID X 3/4" X 1")	1	269-5002-00
8	Coil Support Bracket	1	535-7356-00
	Item 8 is secured to Item 1 by: #8-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5975-00)		
9	Coil, 23-1500 [NO DIODE] BLUE	1	090-5062-ND
	COIL DOES NOT REQUIRE A DIODE. SEE ⍉ COIL NOTE BELOW FOR DETAILS.		
10	Coil Sleeve	1	545-5388-00
11	Deflector Pad (Bumper)	1	545-5428-00
12	Flipper Plunger & Link Sub-Assy.	1	515-6304-03
	For Individual Items use : Flipper Plunger (**530-5349-01**) **and** Plunger "Flipper" Link (**545-5611-01**) **and is secured to the Plunger by:** Bushing, .16" ø ID X .281" ø OD X .187" (Qty. 1) (530-5532-00) **and** Spiral Pin ø 5/32" X 3/4" Lg. (Qty. 1) (251-5015-02)		
13	Crank Bar (Pawl)	1	530-5070-02
	Item 13 requires: Bushing, .192" ø ID X .312" ø OD X .195" (Qty. 1) (530-5139-00)		
14®	Switch Actuator (**LEFT**) Sub-Assy.	1	515-7257-**01**
	For Individual Items use : Actuator & Spring Bracket (**LEFT**) (**535-9038-01**) **and** ® Switch Actuator (White Plastic) (**545-5612-00**) **and is secured to the Bracket by:** Rivet, 1/8" ø X 1/4" Lg. (Qty. 1) (249-5003-00)		
15	Set Screw: #10-32 X 3/4" Socket Hd.	2	237-6144-00
	Item 15 requires: #10-32 Nylon Stop Nut (Qty. 1) ***Flipper Link Side Only*** (240-5203-00) **and** #10 Split Lock Washer (Qty. 1) ***Switch Actuator Side Only*** (244-5003-00) *Tool required for Item 15:* **5/32"** *or* **4mm Allen Wrench**		

Flipper Rebuild Parts for Easier Installation, $ave $:

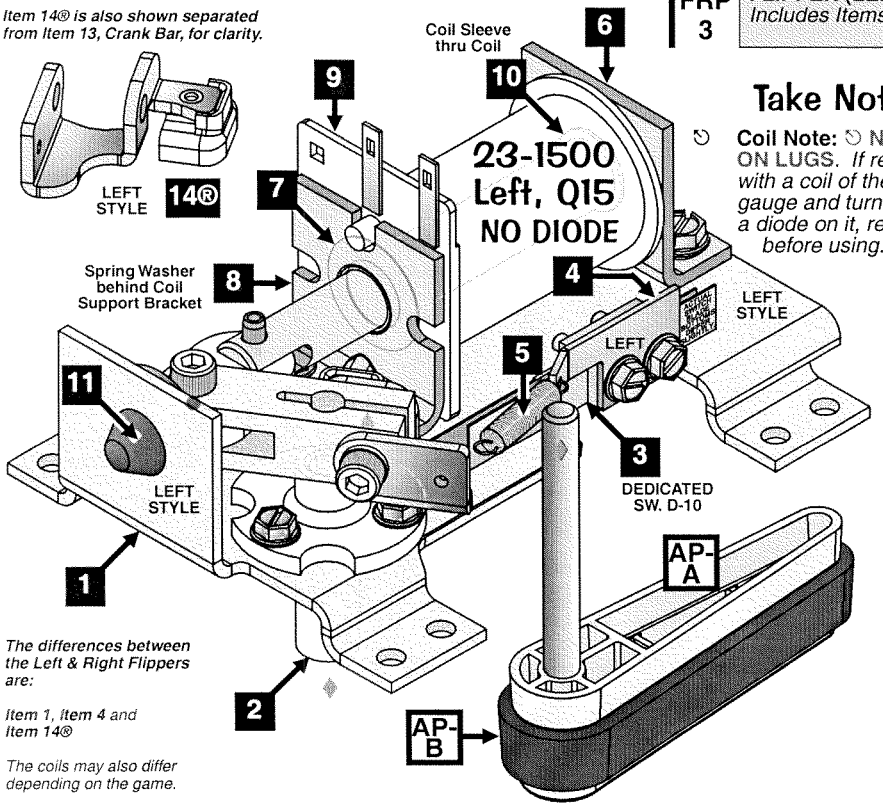
FRP 1 **FLIPPER BASE PLATE KIT (LEFT) :** *Includes Item **1** pre-threaded >+< Securing Hardware for Items **2, 3, 6 & 8.*** 515-6617-**01**

FRP 2 **PLUNGER, LINK & CRANK (LEFT STYLE) ASSEMBLY :** *Includes Items **12, 13, 14 & 15** (comes assembled).* 515-7203-**01**

FRP 3 **FLIPPER (LEFT) REBUILD KIT :** *Includes Items **6, 10 AND** above **FRP2*** 500-6307-**10**



Item 14® is also shown separated from Item 13, Crank Bar, for clarity.



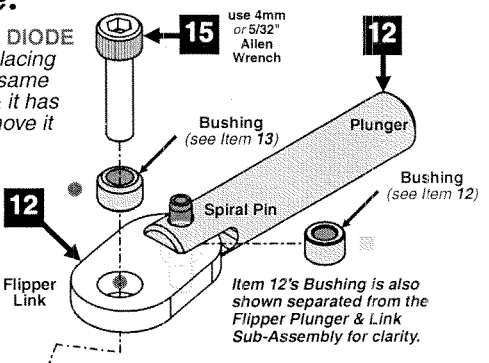
The differences between the Left & Right Flippers are:

Item 1, Item 4 and Item 14®

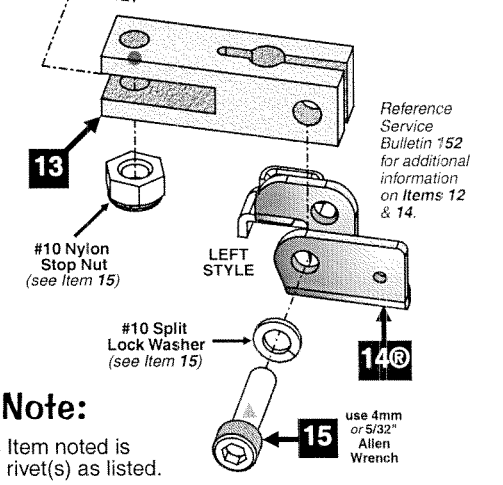
The coils may also differ depending on the game.

Take Note:

⍉ **Coil Note:** ⍉ NO DIODE ON LUGS. *If replacing with a coil of the same gauge and turn & it has a diode on it, remove it before using.*



Item 12's Bushing is also shown separated from the Flipper Plunger & Link Sub-Assembly for clarity.



Reference Service Bulletin 152 for additional information on Items 12 & 14.

ASSOCIATED PARTS **ARE NOT INCLUDED** WITH THE ABOVE ASSEMBLY.

Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
AP-A	**YELLOW** Flipper Bat & Shaft Asm. (Non-Knurled End) ***without** Rubber Ring*	1	515-5133-**06**-06
AP-B	Large Flipper **BLACK** Rubber Ring	1	545-5277-00

Take Note:

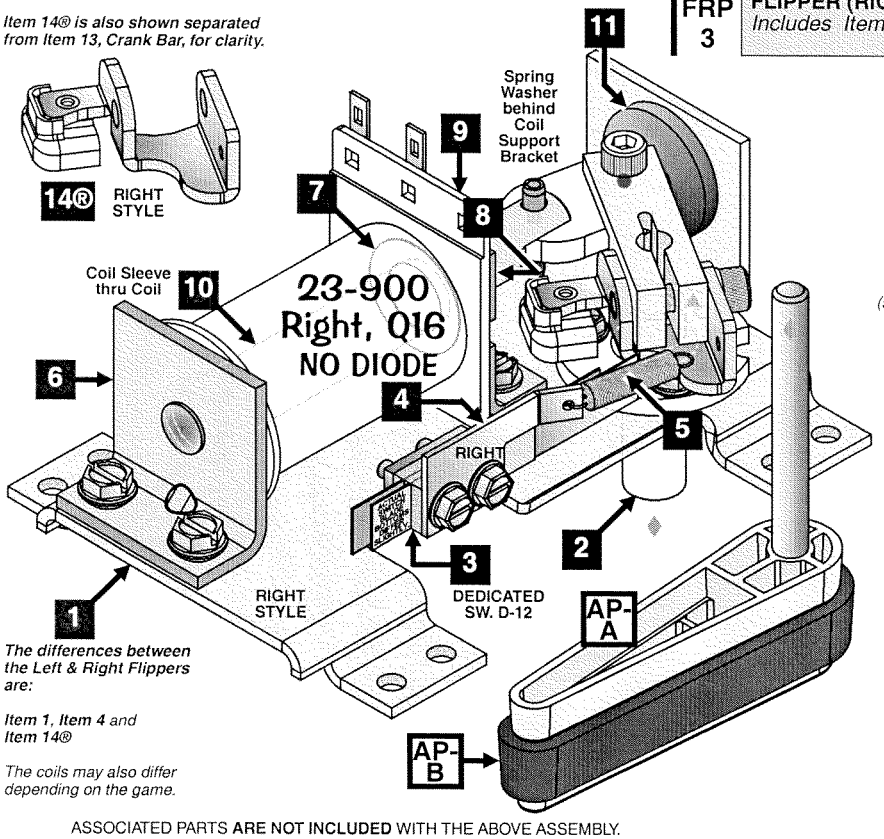
® "R" indicates Item noted is secured with rivet(s) as listed.

Assemblies & Ramps

Flipper (Right) Assembly, 500-6543-05-ND (Items 1-15)
and Associated Parts: Yellow Flipper Bat & Shaft Asm., 515-5133-06-06 (Items AP-A / AP-B)

Nr.	FLIPPER (RIGHT) PARTS	QTY.	SPI PART Nr.
1	Flipper Base Plate (**RIGHT**)	1	*See FRP1*
	Item 1 is secured below by: #8 X 1/2" SHWH AB (Zinc) (Qty. 8) (234-5101-00) *Ordering Note : Individual Part (535-7275-00) is not prethreaded, see Item FRP1.*		
2	Flipper Bat Bushing (White Plastic) .25" ø I.D.	1	545-5070-00
	Item 2 is secured to Item 1 by: #6-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 3) (237-5976-02)		
3	Power (EOS / End-of-Stroke) Switch	1	180-5149-00
	Item 3 is secured to Item 1 by: #6-32 X 5/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5976-04)		
4	Sw. Plate/Spring Return Brkt. (**RIGHT**)	1	535-7354-**00**
5	Flipper Return Spring	1	265-5035-00
6	Coil Stop Bracket Sub-Assembly	1	515-6308-01
	Item 6 is secured to Item 1 by: #10-32 X 3/8" SHWH Swage (Serr) Zinc (Qty. 2) (237-5985-00) **and** #10 Split Lock Washer (Qty. 2) (244-5003-00)		
7	Spring Washer (17/32" ID X 3/4" X 1")	1	269-5002-00
8	Coil Support Bracket	1	535-7356-00
	Item 8 is secured to Item 1 by: #8-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5975-00)		
9	Coil, 23-900 [NO DIODE] BLUIE	1	090-5020-30
	COIL DOES NOT REQUIRE A DIODE. SEE ↻ COIL NOTE PREV. PAGE FOR DETAILS.		
10	Coil Sleeve	1	545-5388-00
11	Deflector Pad (Bumper)	1	545-5428-00
12	Flipper Plunger & Link Sub-Assy.	1	515-6304-03
	For Individual Items use : Flipper Plunger (**530-5349-01**) **and** Plunger "Flipper" Link (**545-5611-01**) **and is secured to the Plunger by:** Bushing, .16" ø ID X .281" ø OD X .187" (Qty. 1) (530-5532-00) **and** Spiral Pin ø 5/32" X 3/4" Lg. (Qty. 1) (251-5015-02)		
13	Crank Bar (Pawl)	1	530-5070-02
	Item 13 requires: Bushing, .192" ø ID X .312" ø OD X .195" (Qty. 1) (530-5139-00)		
14®	Switch Actuator (**RIGHT**) Sub-Assy.	1	515-7257-**00**
	For Individual Items use : Actuator & Spring Bracket (**LEFT**) (**535-9038-01**) **and** ® Switch Actuator (White Plastic) (**545-5612-00**) **and is secured to the Bracket by:** Rivet, 1/8" ø X 1/4" Lg. (Qty. 1) (249-5003-00)		
15	Set Screw: #10-32 X 3/4" Socket Hd.	2	237-6144-00
	Item 15 requires: #10-32 Nylon Stop Nut (Qty. 1) ***Flipper Link Side Only*** (240-5203-00) **and** #10 Split Lock Washer (Qty. 1) ***Switch Actuator Side Only*** (244-5003-00) *Tool required for Item 15:* 5/32" *or* 4mm Allen Wrench		

Item 14® is also shown separated from Item 13, Crank Bar, for clarity.



The differences between the Left & Right Flippers are:

Item 1, Item 4 and Item 14®

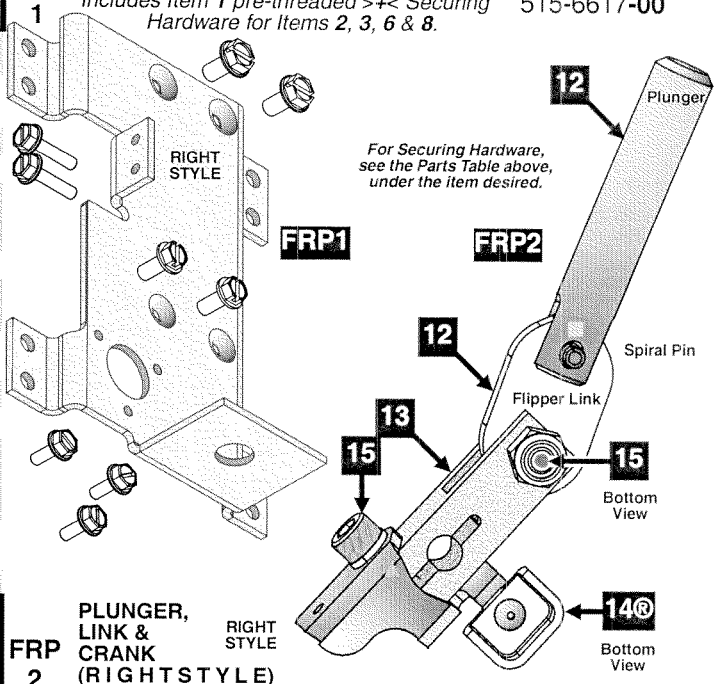
The coils may also differ depending on the game.

ASSOCIATED PARTS **ARE NOT INCLUDED** WITH THE ABOVE ASSEMBLY.

Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
AP-A	**YELLOW** Flipper Bat & Shaft Asm. (Non-Knurled End) ***without*** *Rubber Ring*	1	515-5133-**06**-06
AP-B	Large Flipper **BLACK** Rubber Ring	1	545-5277-00

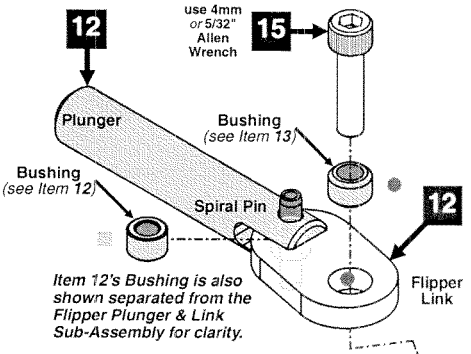
Flipper Rebuild Parts for Easier Installation, Save $:

FRP 1 **FLIPPER BASE PLATE KIT (R I G H T) :** *Includes Item 1 pre-threaded >+< Securing Hardware for Items 2, 3, 6 & 8.* 515-6617-**00**

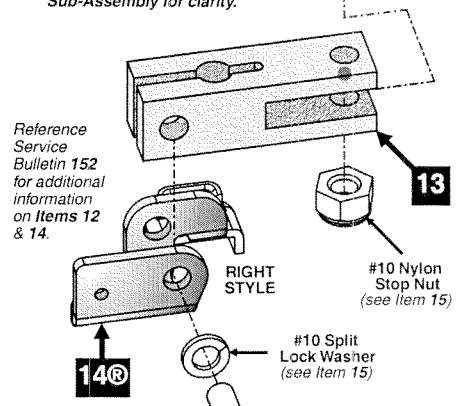


FRP 2 **PLUNGER, LINK & CRANK (R I G H T S T Y L E) ASSEMBLY :** *Includes Items 12, 13, 14 & 15 (comes assembled).* 515-7203-**00**

FRP 3 **FLIPPER (RIGHT) R E B U I L D K I T :** *Includes Items 6, 10 AND above FRP2* 500-6307-**00**



Item 12's Bushing is also shown separated from the Flipper Plunger & Link Sub-Assembly for clarity.



Reference Service Bulletin 152 for additional information on Items 12 & 14.

Take Note:

® "R" indicates Item noted is secured with rivet(s) as listed.

Assemblies & Ramps

Slingshot (Left & Right) Assemblies, 500-5849-00-ND (Qty. 2) (Items 1-9)

Nr.	SLINGSHOT PARTS	QTY.	SPI PART Nr.
1	Slingshot Bracket Assembly	1/per	515-5339-01
	Item 1 is secured below the playfield by: #8 X 1/2" SHWH AB (Zc.) (Qty. 3) (234-5101-00)		
2	Coil Retaining Bracket	1/per	535-5203-03
	Item 2 is secured to Item 1 by: #8-32 X 3/8" PPH MS (Sems) (Qty. 2) (232-5301-00)		
3	Coil, 23-800 [NO DIODE]	1/per	090-5001-ND
	COIL DOES NOT REQUIRE A DIODE. SEE ↻ COIL NOTE BELOW FOR DETAILS.		
4	Coil Sleeve	1/per	545-5031-00
5	Plunger & Link Assembly	1/per	515-5338-00
	For Individual Items use : Plunger 2" Lg. (**530-5025-01**), Plunger Link (**545-5293-00**) and Roll Pin 1/8" ø x 5/8" Lg. (**251-5008-00**) **The Plunger Link is secured to the Riveted Arm by:** Retaining Ring, 1/4" ø Shaft (Qty. 1) (270-5002-00)		
	Ordering Note: *If **515-5338-00** is unavailable, order the individual part(s) actually required.*		

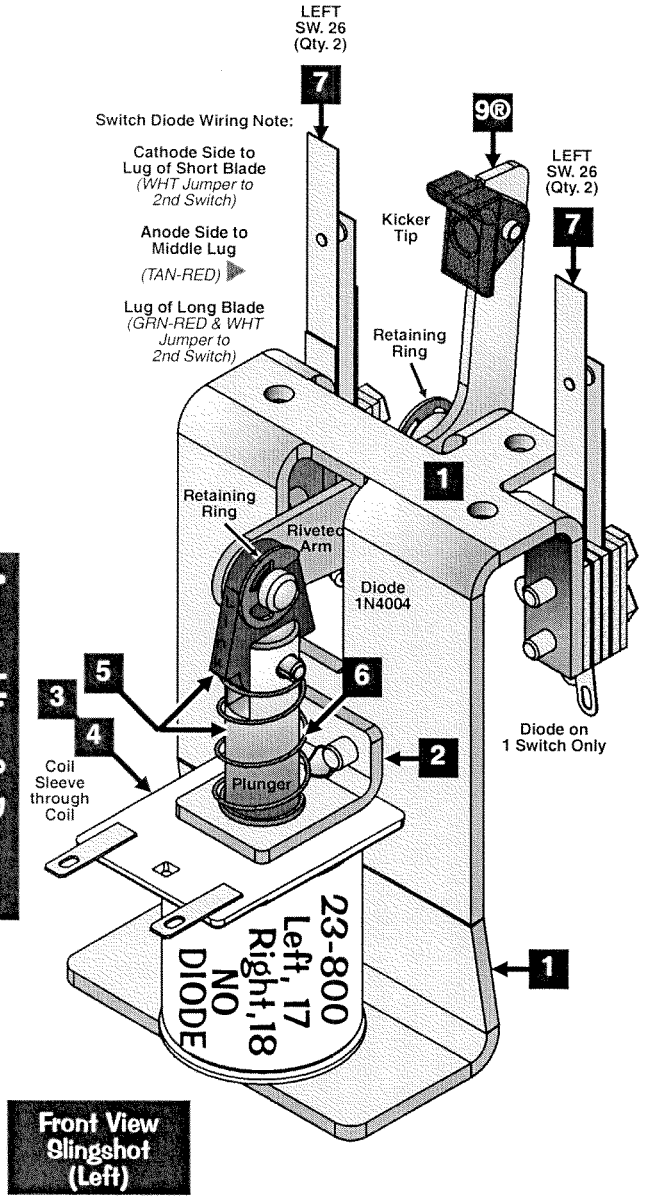
Nr.	SLINGSHOT PARTS	QTY.	SPI PART Nr.
6	Compression (Return) Spring	1/per	266-5020-00
7	Slingshot Stack (Blade) Switch	2/per	180-5054-00
	Only **1** of the 2 Switches has a Diode (1N4004) (112-5003-00). *See Note Below on Drawing. Can be replaced with (1N4001) (112-5001-00).*		
8	Switch Body Protect Plate	2/per	535-5045-00
	Items 7 & 8 are secured to Item 1 by: #6-32 X 5/8" HWH Swage (Qty. 4) (237-5976-04)		
9®	Riveted Arm & Tip Assembly	1/per	515-5340-01
	For Individual Parts use (requires drilling out rivet & rereviting) : Arm (**515-5341-01**), Kicker Tip (**545-5216-01**) **and** Rivet, 1/8" ø x 1/4" Lg. (**249-5003-00**) **The Riv. Arm is secured to Item 1 by:** Retaining Ring, 1/4" ø Shaft (Qty. 1) (270-5002-00)		
	Ordering Note: *If **515-5340-01** is unavailable, order the individual part(s) actually required.*		

Ordering Note: *If **500-5849-00-ND** is unavailable, order the individual part(s) actually required. This assembly is identical to **500-5849-02-ND** with the exception of **Item 3**, which uses a Coil, 27-1500 [NO DIODE] (**090-5004-ND**) instead.*

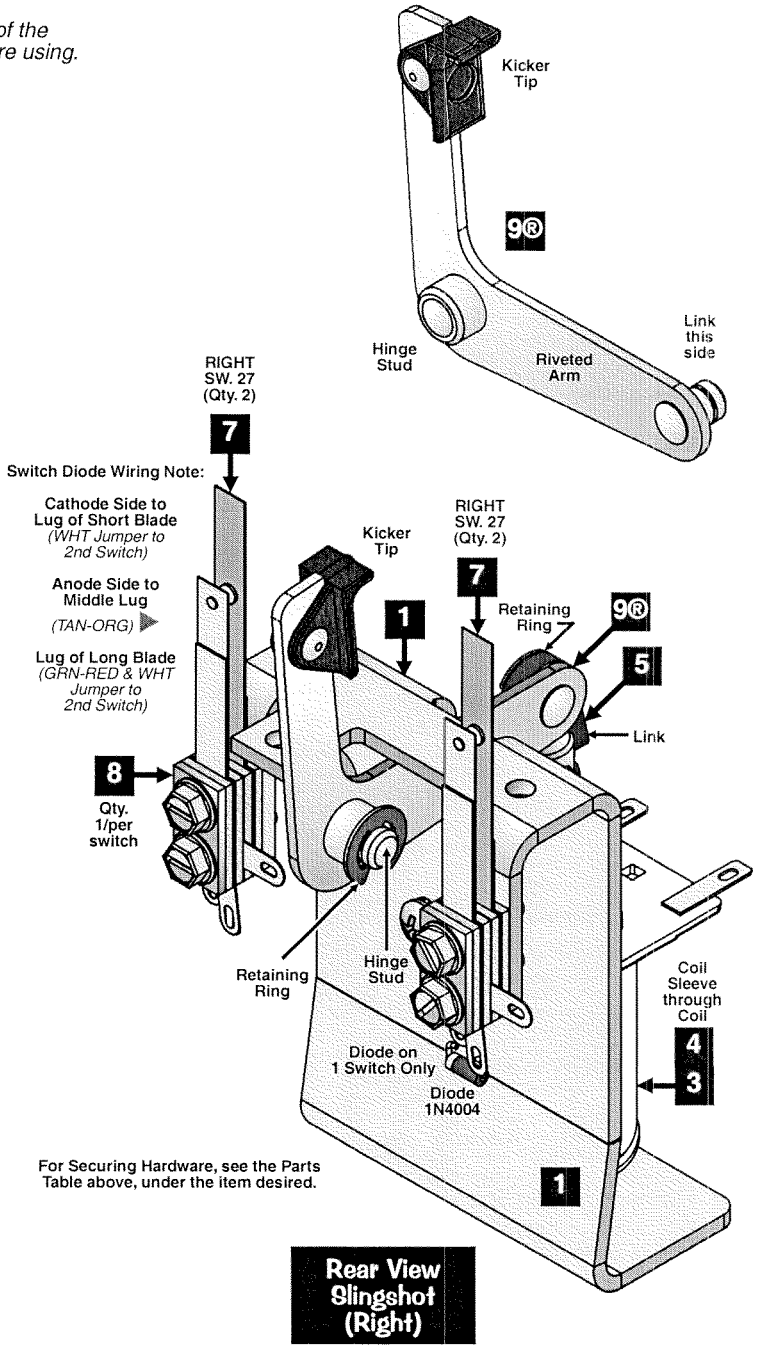
Take Note:

R **Coil Note:** ↻ NO DIODE ON LUGS. *If replacing with a coil of the same gauge and turn and it has a diode on it, remove it before using.*

® "R" indicates Item noted is secured with rivet(s) as listed.


LEFT SW. 26 (Qty. 2)
Switch Diode Wiring Note:
Cathode Side to Lug of Short Blade (WHT Jumper to 2nd Switch)
Anode Side to Middle Lug (TAN-RED)
Lug of Long Blade (GRN-RED & WHT Jumper to 2nd Switch)
Kicker Tip
LEFT SW. 26 (Qty. 2)
Retaining Ring
Retaining Ring
Riveted Arm
Diode 1N4004
Diode on 1 Switch Only
Coil Sleeve through Coil
Plunger
23-800 Left, 17 Right, 18 NO DIODE

Front View Slingshot (Left)

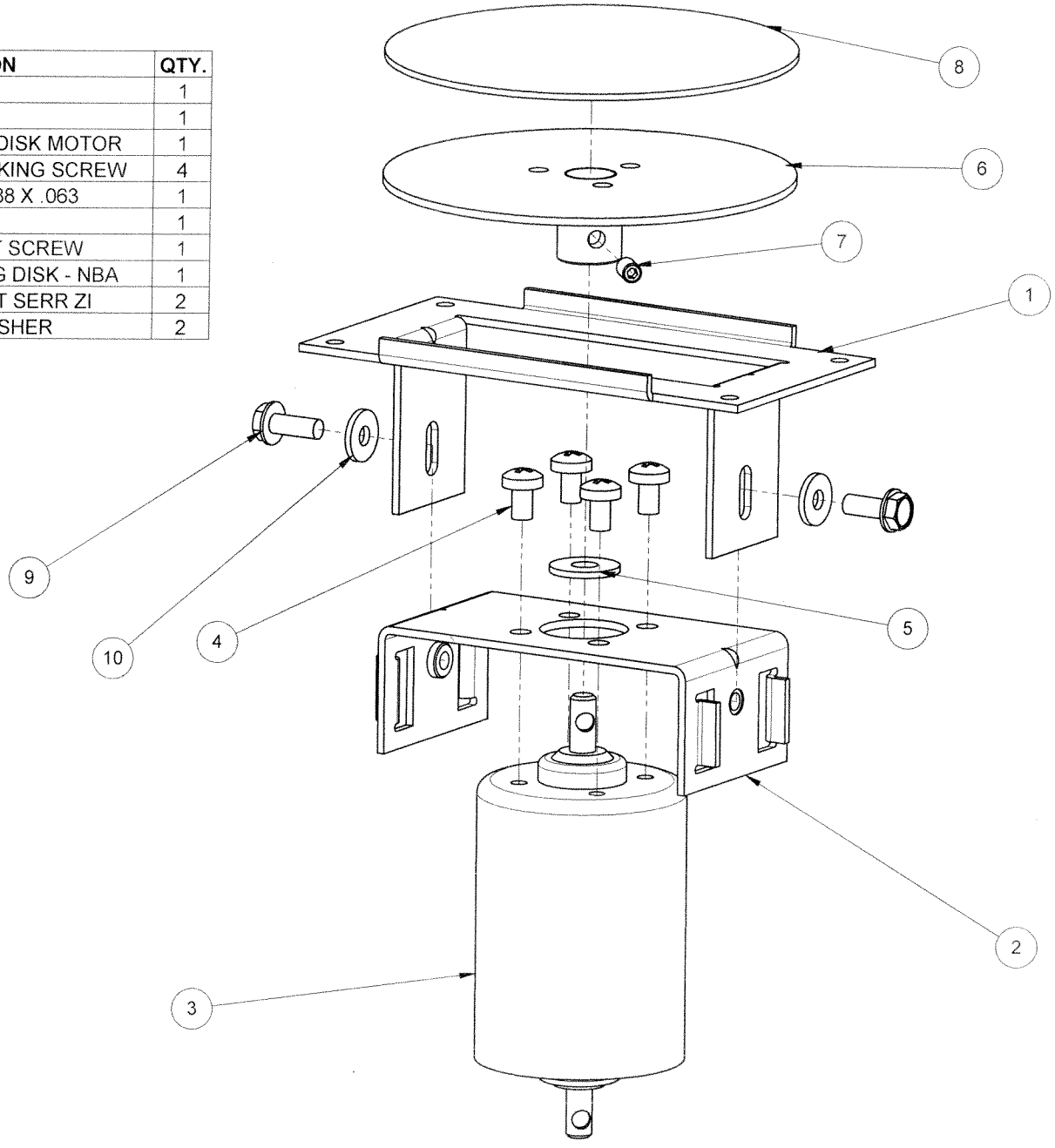


For Securing Hardware, see the Parts Table above, under the item desired.

Rear View Slingshot (Right)

Assemblies & Ramps

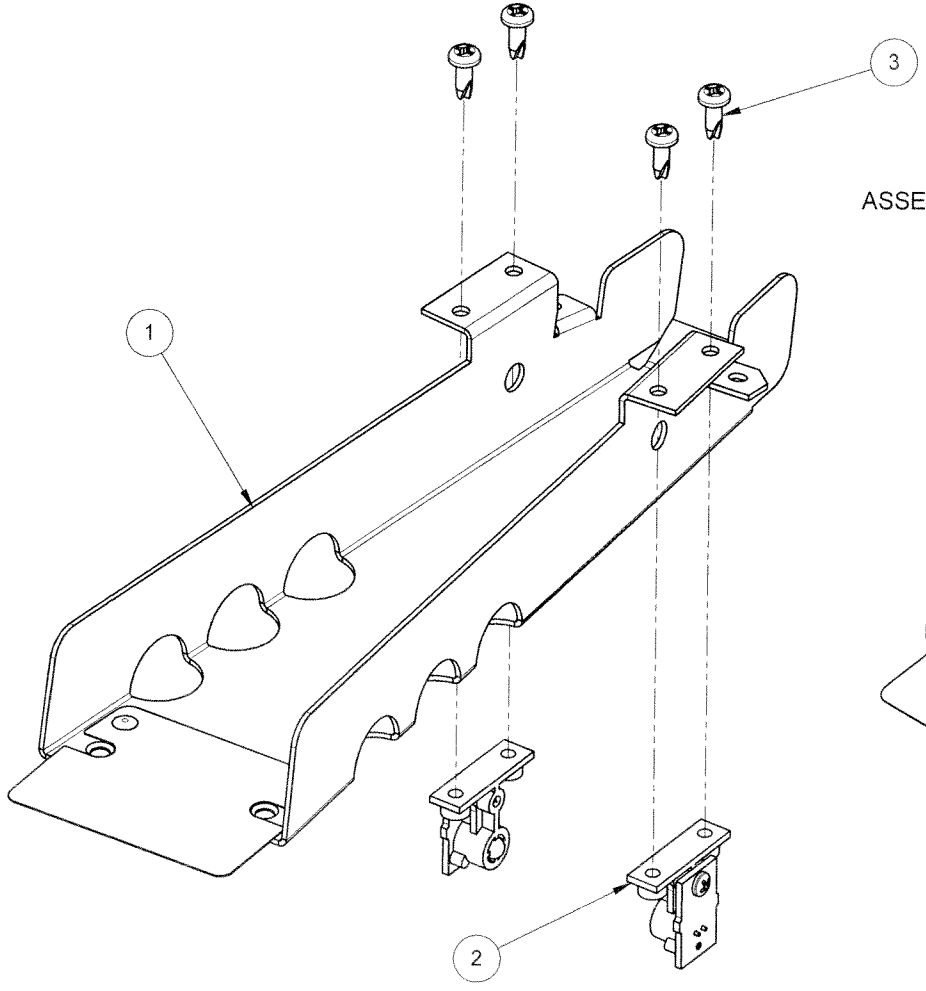
ITEM #	PART NUMBER	DESCRIPTION	QTY.
1	535-0278-00	MOUNTING BRACKET	1
2	515-7715-00	MOTOR BRACKET	1
3	511-5190-00	SOLDER ASSY SPINNING DISK MOTOR	1
4	237-6014-00	M5 X 0.8 X 8 PH SELF LOCKING SCREW	4
5	242-5028-00	WASHER NYLON .265 X .688 X .063	1
6	515-7714-00	DISK/HUB WELDMENT	1
7	237-6092-00	#10-32 X 5/16 SOCKET SET SCREW	1
8	545-6373-07-A9	ADHESIVE PAD - SPINNING DISK - NBA	1
9	237-5995-00	#10-32 x 1/2 HWH NO SLOT SERR ZI	2
10	242-5003-00	7/32 ID X .50 OD X .062 WASHER	2



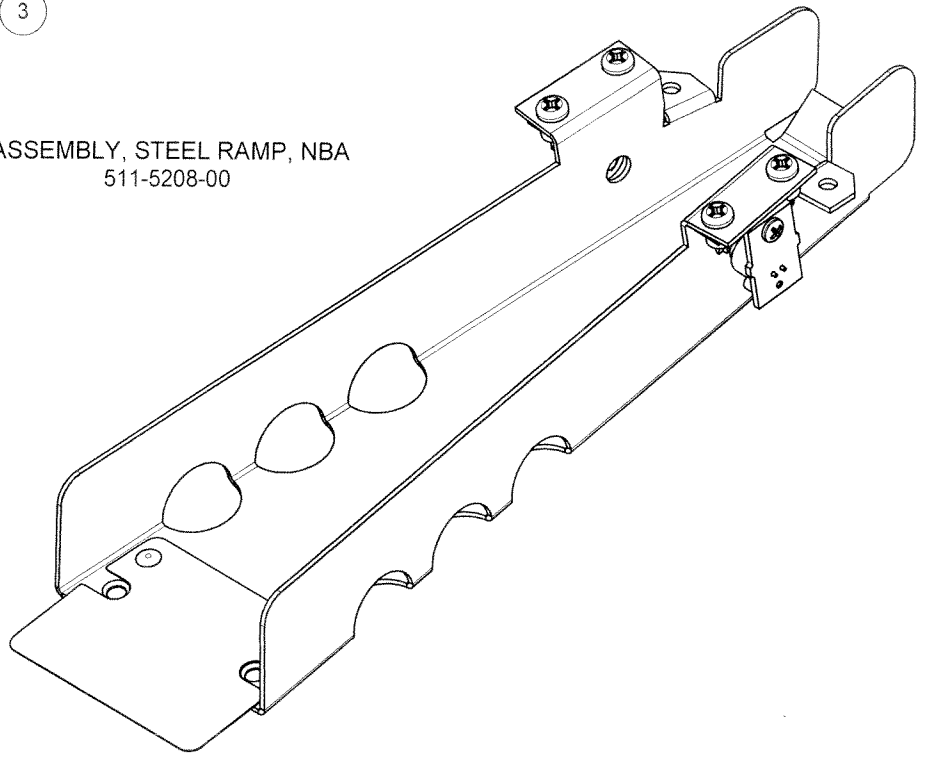
SPINNING DISK ASSEMBLY - NBA

500-7144-01

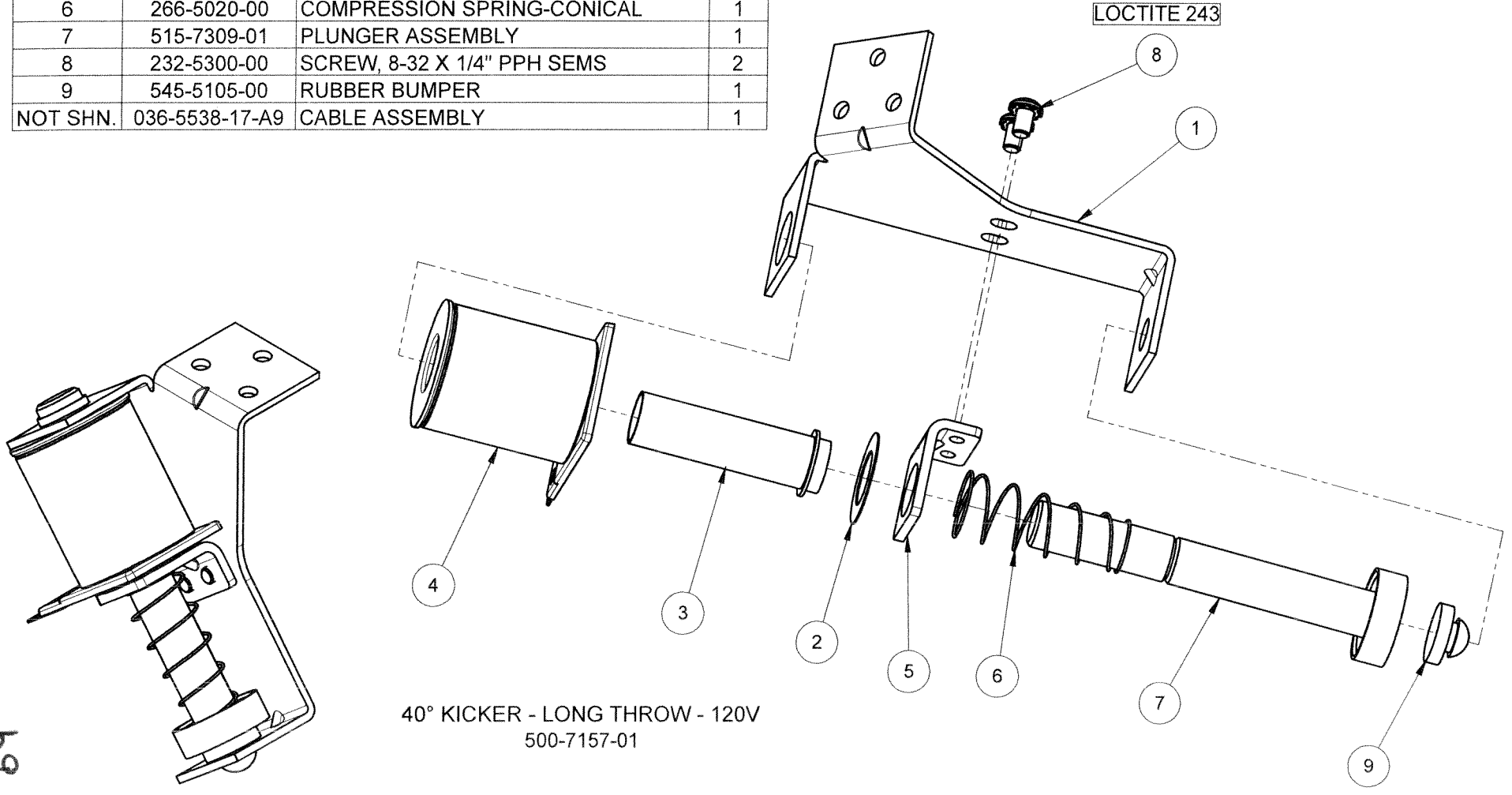
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	510-5095-00	RIVETED ASSY, STEEL RAMP, NBA	1
2	500-6775-01	OPTO TRANSCEIVER ASSY, 15" LEADS	2
3	237-5880-00	SCREW, #6 X 3/8 PPH T-25	4



ASSEMBLY, STEEL RAMP, NBA
511-5208-00



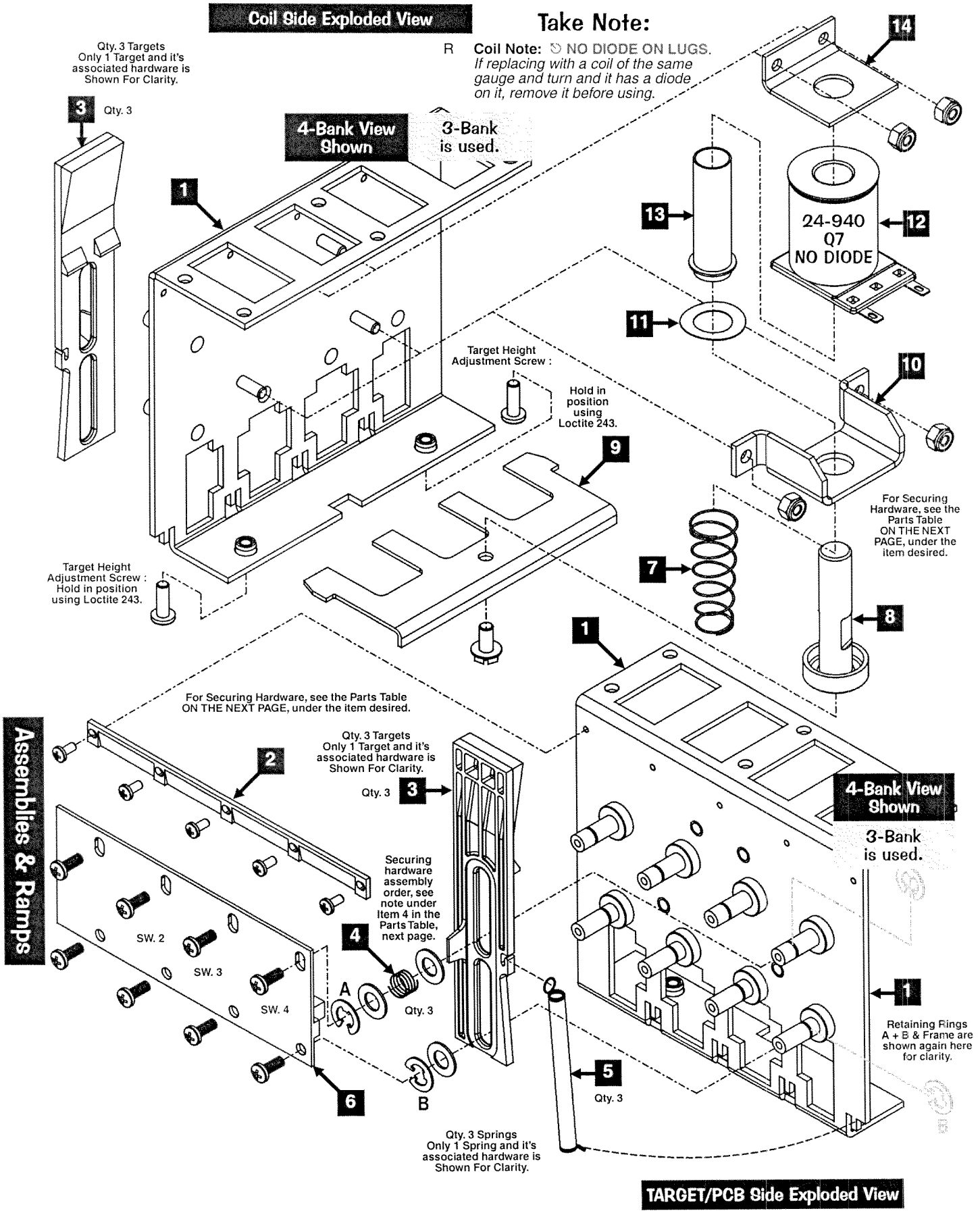
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0300-00	BRACKET - 40° EJECT - LONG THROW	1
2	269-5002-00	SPRING WASHER	1
3	545-5076-01	COIL SLEEVE	1
4	090-5015-ND	COIL 27-1400 - NO DIODE	1
5	535-5203-03	COIL RETAINING BRACKET	1
6	266-5020-00	COMPRESSION SPRING-CONICAL	1
7	515-7309-01	PLUNGER ASSEMBLY	1
8	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS	2
9	545-5105-00	RUBBER BUMPER	1
NOT SHN.	036-5538-17-A9	CABLE ASSEMBLY	1



40° KICKER - LONG THROW - 120V
500-7157-01

3-Bank Drop Target Assembly, 500-7029-03-00 (Items 1-14)

[Different Views & Parts Table on the next page.]


Coil Side Exploded View
Take Note:
R Coil Note: NO DIODE ON LUGS. If replacing with a coil of the same gauge and turn and it has a diode on it, remove it before using.
Qty. 3 Targets Only 1 Target and it's associated hardware is Shown For Clarity.
3 Qty. 3
4-Bank View Shown
3-Bank is used.
1
14
13
24-940 Q7 NO DIODE
12
11
10
Target Height Adjustment Screw :
Hold in position using Loctite 243.
9
For Securing Hardware, see the Parts Table ON THE NEXT PAGE, under the item desired.
7
8
Target Height Adjustment Screw : Hold in position using Loctite 243.
Assemblies & Ramps
For Securing Hardware, see the Parts Table ON THE NEXT PAGE, under the item desired.
2
Qty. 3 Targets Only 1 Target and it's associated hardware is Shown For Clarity.
Qty. 3
3
4-Bank View Shown
3-Bank is used.
Securing hardware assembly order, see note under Item 4 in the Parts Table, next page.
SW. 2
SW. 3
SW. 4
4
A
Qty. 3
1
Retaining Rings A + B & Frame are shown again here for clarity.
6
B
5
Qty. 3
Qty. 3 Springs Only 1 Spring and it's associated hardware is Shown For Clarity.
TARGET/PCB Side Exploded View

3-Bank Drop Target Assembly, 500-7029-03-00 (Items 1-14) Continued

[Different Views on the previous page.]

Nr.	4-BANK DROP TRGT. PARTS	QTY.	SPI PART Nr.
1	Frame & Pem Weldment, 4-Bank D/T	1	515-7604-03
	Item 1 is secured under the playfield by: #8 X 1/2" SHWH AB (Zc.) (Qty. 5) (234-5101-00)		
2	Target Rest Ledge (Blk.), 4-Bank D/T	1	545-6163-03
	Item 2 is secured to Item 1 by: #4-40 X 1/4" PPH MS (Zinc) (Qty. 6) (237-6169-00)		
3	Drop Target (Black Plastic) Rollover	3	545-6305-00
4	Compression (Short) Spring	3	266-5089-00
	Items 3 & 4 are secured to Item 1 @ top by: Washer, 1/2" X 17/64" X .03" (Qty. 2/per) (242-5091-00) **and** Retaining Ring, 1/4" ø (Qty. 3) (270-5002-00)		
	FRAME PEM —> WASHER —> SPRING —> WASHER —> RETAINING RING —> OPTO PCB —> SCREW		
	Item 3 is secured to Item 1 @ bottom by: Washer, 1/2" X 17/64" X .03" (Qty. 3) (242-5091-00) **and** Retaining Ring, 1/4" ø (Qty. 3) (270-5002-00)		
5	Reset (Long) Spring (Red Dipped)	3	265-5003-02
6	PCB, Slotted OPTO X3	1	520-5252-03
	Item 6 is secured to Item 1 by: #6-32 X 3/8" PPH MS (Zinc) (Qty. 6) (237-5501-00)		
7	Compression (Return) Spring	1	266-5020-00
8	Steel Plunger with End Cap	1	530-5757-00
9	Bracket, Target Lift (4-Bank)	1	535-9996-03
	Item 9 is secured to Item 8 Plunger by: #10-32 X 3/8" SHWH Swage (Zinc) Wax (Qty. 1) (237-5985-00) ////// TARGET HEIGHT ADJUSTMENT: //////		
	Item 9 is adjusted through Item 1 by: #8-32 X 1/2" PPH MS (Zinc) (Qty. 2) (237-5602-00)		
10	Coil Mounting Bracket [2+ Bank Style]	1	535-9995-01
	Item 10 is secured to Item 1 by: #8-32 Nylon Stop Nut (Qty. 2) (240-5102-00)		
11	Spring Washer (17/32" ID X 3/4" X 1")	1	269-5002-00
12	Coil, 24-940 [NO DIODE]	1	090-5036-ND
	COIL DOES NOT REQUIRE A DIODE. **SEE ↻ COIL NOTE ABOVE FOR DETAILS.**		
13	Coil Sleeve (Formost #10-7077)	1	545-5076-01
14	Bracket, Plunger Stop	1	535-9959-00
	Item 14 is secured to Item 1 by: #8-32 Nylon Stop Nut (Qty. 2) (240-5102-00)		

Ordering Note: *If **500-7029-03-00** is unavailable, order the individual part(s) actually required (for cable wiring, use Part Number 036-5536-09-A2).*

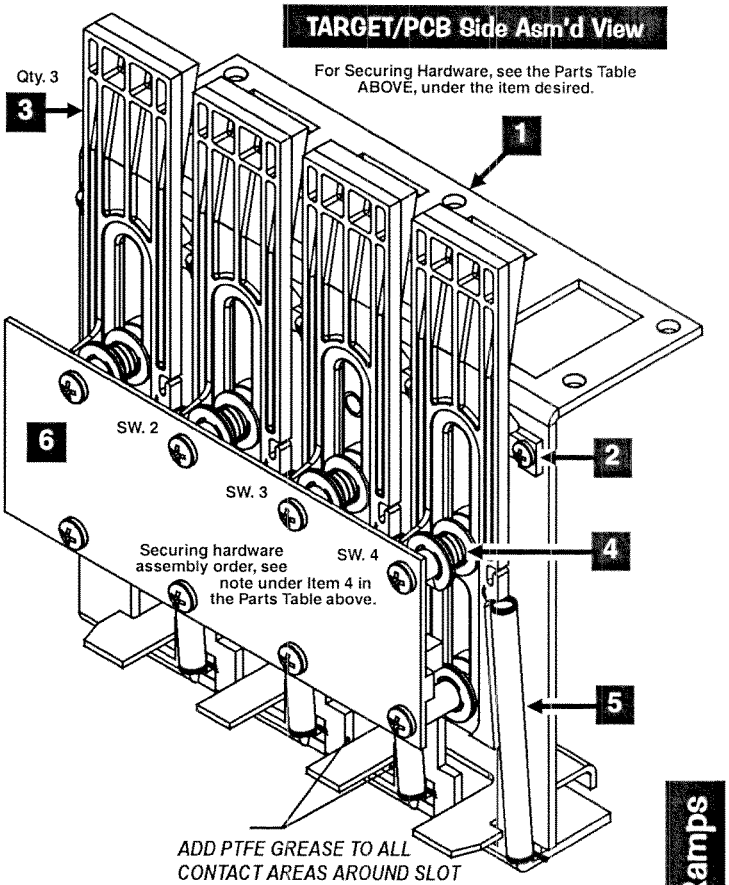
4-Bank View Shown 3-Bank is used.

Take Note:

R **Coil Note:** ↻ NO DIODE ON LUGS. *If replacing with a coil of the same gauge and turn and it has a diode on it, remove it before using.*

TARGET/PCB Side Asm'd View

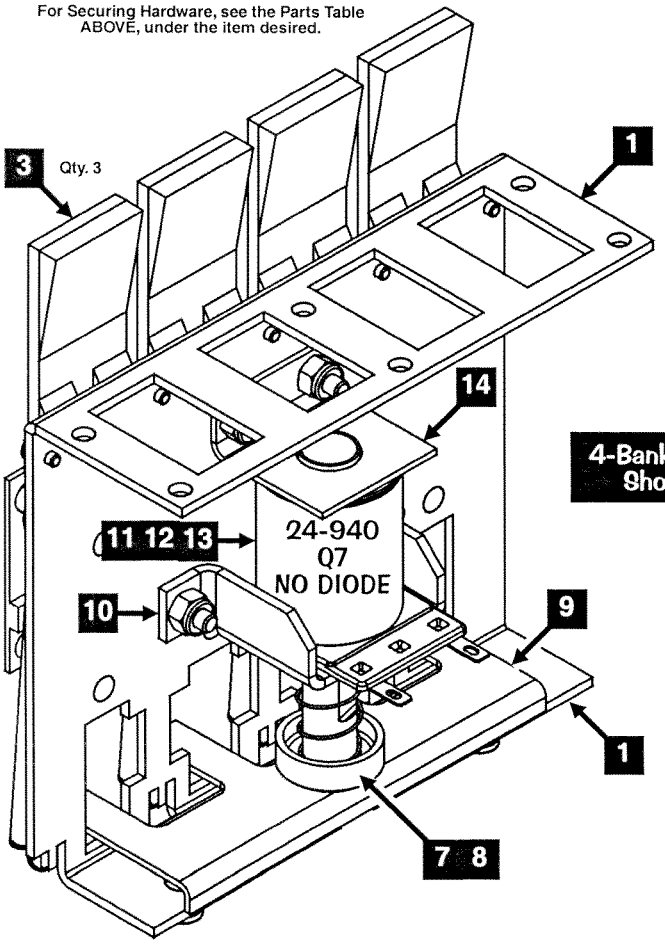
For Securing Hardware, see the Parts Table ABOVE, under the item desired.



ADD PTFE GREASE TO ALL CONTACT AREAS AROUND SLOT P/N 000-0646-00 MAGNALUBE-G OR EQUIVALENT

Coil Side Assembled View

For Securing Hardware, see the Parts Table ABOVE, under the item desired.

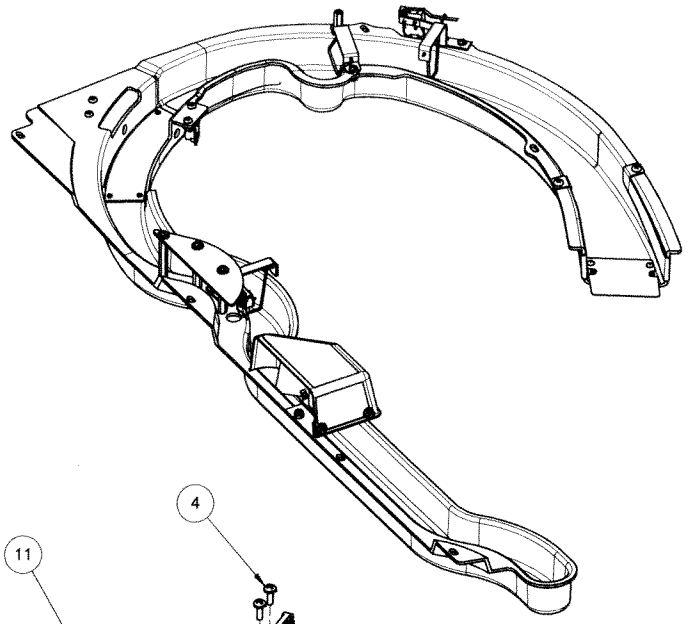


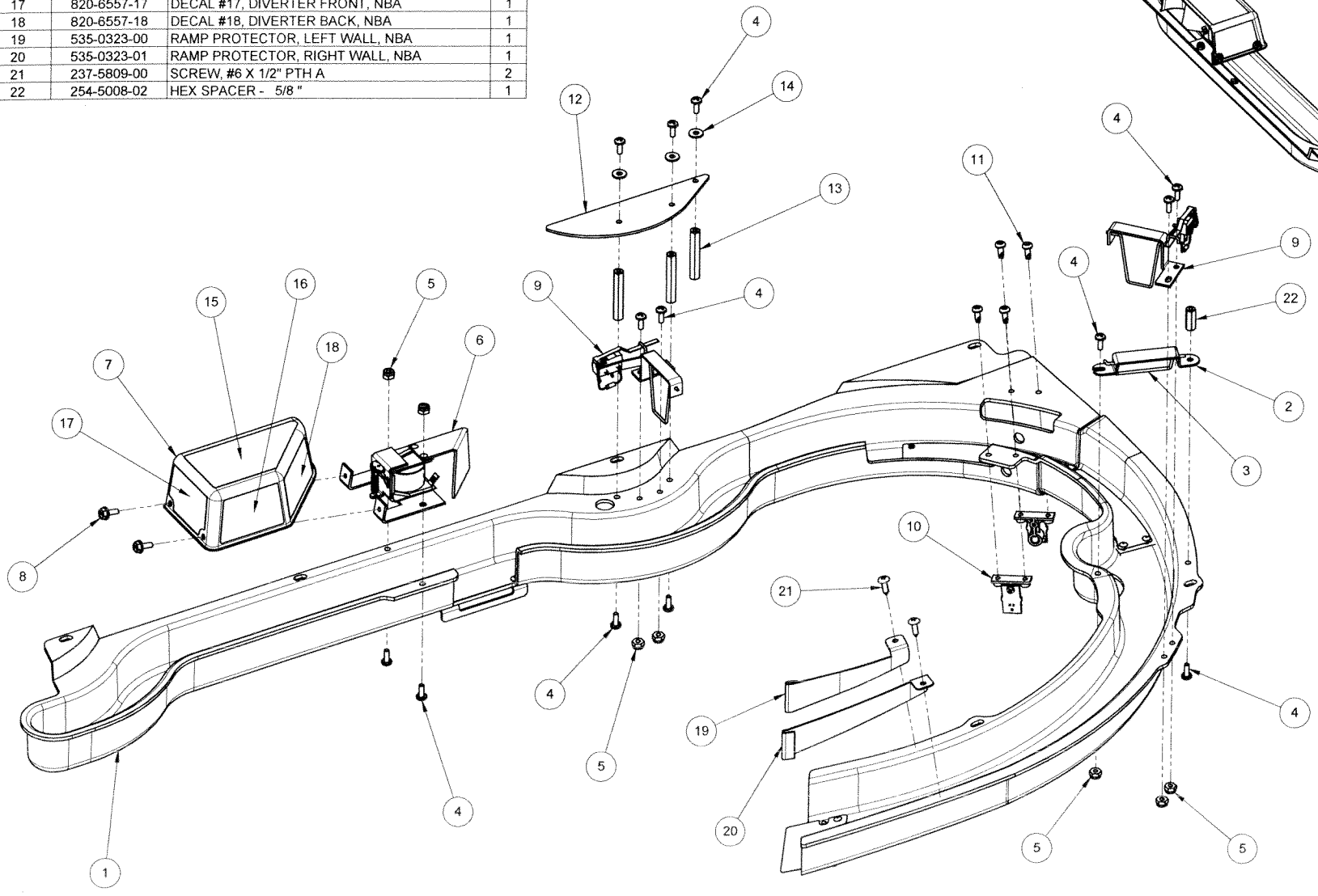
4-Bank View Shown 3-Bank is used.

Assemblies & Ramps

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	510-5091-00	RIVETED ASSY, PLASTIC RAMP, NBA	1
2	535-5269-06	ONE WAY GATE BRACKET	1
3	535-5307-09	ONE-WAY WIRE GATE	1
4	232-5201-00	SCREW, 6-32 X 3/8" PPH MS SEMS	13
5	240-5005-00	6-32 NYLOK STOP NUT	7
6	515-6596-00-A9	ASSEMBLY, DIVERTER & CABLE, NBA	1
7	545-6059-01	DIVERTER COVER - MOD. HOLES	1
8	237-5976-02	SCREW, 6-32 X 3/8" HWH	2
9	515-6556-04-GE	R/U SWITCH ASSEMBLY -04 W/ GENERIC CABLE	2
10	500-6775-01	OPTO TRANSCEIVER ASSY, 15" LEADS	2
11	237-5880-00	SCREW, #6 X 3/8 PPH T-25	4
12	830-6101-16	BUTY #16 - PLASTIC RAMP LEFT	1
13	254-5008-09	HEX SPACER - 1 1/2 "	3
14	242-5001-00	#6 WASHER	3
15	820-6557-15	DECAL #15, DIVERTER TOP, NBA	1
16	820-6557-16	DECAL #16, DIVERTER SIDE, NBA	1
17	820-6557-17	DECAL #17, DIVERTER FRONT, NBA	1
18	820-6557-18	DECAL #18, DIVERTER BACK, NBA	1
19	535-0323-00	RAMP PROTECTOR, LEFT WALL, NBA	1
20	535-0323-01	RAMP PROTECTOR, RIGHT WALL, NBA	1
21	237-5809-00	SCREW, #6 X 1/2" PTH A	2
22	254-5008-02	HEX SPACER - 5/8 "	1

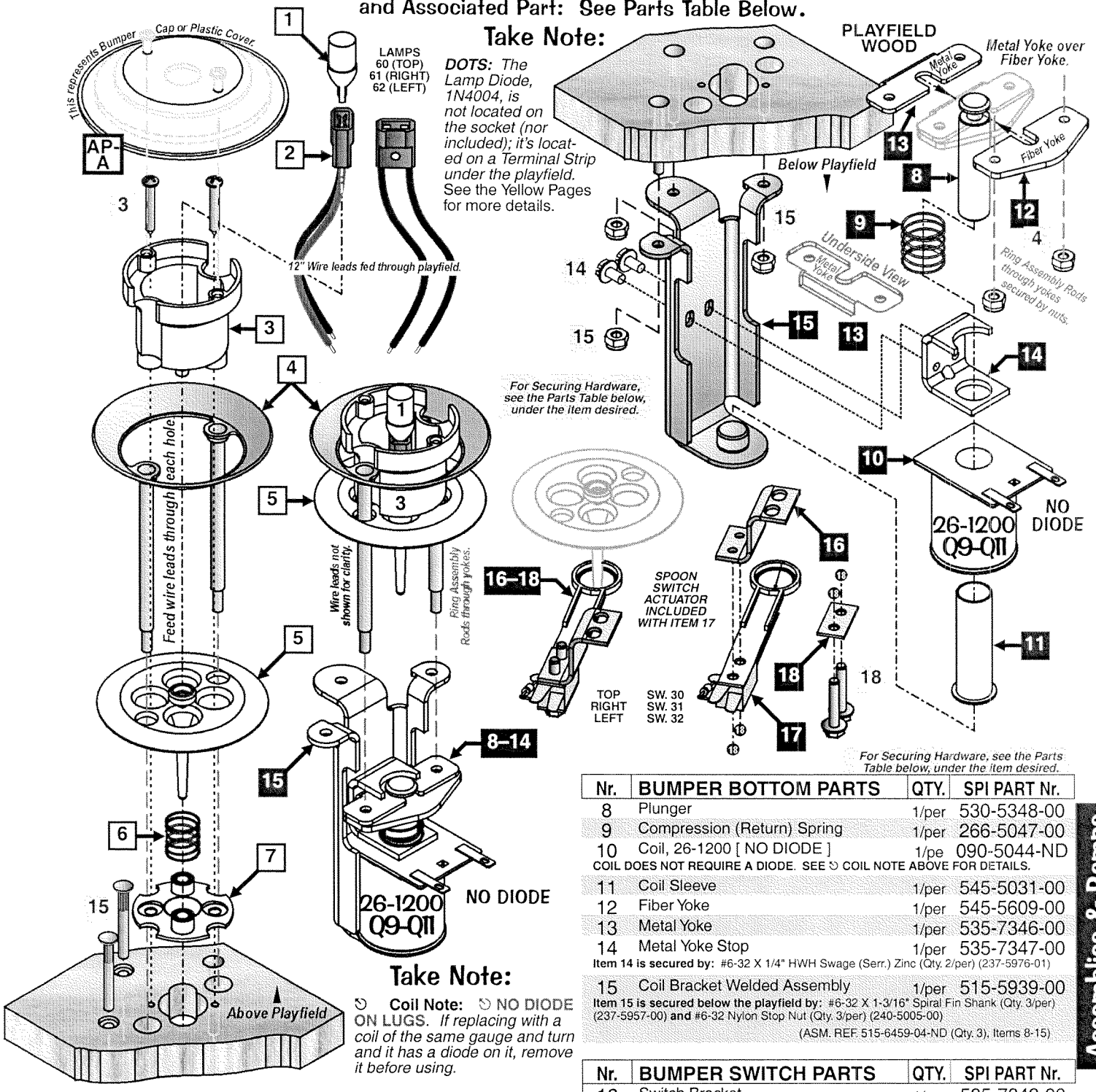
ASSEMBLY, PLASTIC RAMP, NBA
500-7158-00





Left, Right & Bottom Bumper & Switch Individual Parts Only (Items 1-18)

and Associated Part: See Parts Table Below.


Take Note:
DOTS: The Lamp Diode, 1N4004, is not located on the socket (nor included); it's located on a Terminal Strip under the playfield. See the Yellow Pages for more details.
LAMPS
60 (TOP)
61 (RIGHT)
62 (LEFT)
This represents Bumper Cap or Plastic Cover.
AP-A
12" Wire leads fed through playfield.
Feed wire leads through each hole
Wire leads not shown for clarity.
Ring Assembly Rods through yokes.
For Securing Hardware, see the Parts Table below, under the item desired.
PLAYFIELD WOOD
Metal Yoke over Fiber Yoke.
Below Playfield
Underside View
Ring Assembly Rods through yokes secured by nuts.
SPOON SWITCH ACTUATOR INCLUDED WITH ITEM 17
TOP SW. 30
RIGHT SW. 31
LEFT SW. 32
26-1200 09-011
NO DIODE
Above Playfield
8-14
16-18

Take Note:

Coil Note: NO DIODE ON LUGS. *If replacing with a coil of the same gauge and turn and it has a diode on it, remove it before using.*

Nr.	BUMPER TOP PARTS	QTY.	SPI PART Nr.
1	LED Module (WHT) (6.3v) Wedge Base	1/per	112-5024-08
2	Wedge Base Socket	1/per	077-5206-00
3	Bumper Body	1/per	545-5197-00
	Item 3 is secured above the P/F by: #5 X 7/8" PRH AB (Zinc) (Qty. 2/per) (237-5826-00)		
4	Ring Assembly	1/per	515-5085-00
	Item 4 is secured by: #6-32 Nylon Stop Nut (Qty. 2/per) (240-5005-00)		
5	Bumper Skirt (Switch Actuator)	1/per	545-5607-00
6	Bumper Skirt Compression Spring	1/per	266-5048-00
7	Bumper Base	1/per	545-5195-00
	(ASM. REF. 515-6459-01L (Qty. 3), Items 1-7		

The Top & Bottom Assemblies are secured together by hardware noted in Item 4.

For Securing Hardware, see the Parts Table below, under the item desired.

Nr.	BUMPER BOTTOM PARTS	QTY.	SPI PART Nr.
8	Plunger	1/per	530-5348-00
9	Compression (Return) Spring	1/per	266-5047-00
10	Coil, 26-1200 [NO DIODE]	1/pe	090-5044-ND
	COIL DOES NOT REQUIRE A DIODE. SEE ↻ COIL NOTE ABOVE FOR DETAILS.		
11	Coil Sleeve	1/per	545-5031-00
12	Fiber Yoke	1/per	545-5609-00
13	Metal Yoke	1/per	535-7346-00
14	Metal Yoke Stop	1/per	535-7347-00
	Item 14 is secured by: #6-32 X 1/4" HWH Swage (Serr.) Zinc (Qty. 2/per) (237-5976-01)		
15	Coil Bracket Welded Assembly	1/per	515-5939-00
	Item 15 is secured below the playfield by: #6-32 X 1-3/16" Spiral Fin Shank (Qty. 3/per) (237-5957-00) **and** #6-32 Nylon Stop Nut (Qty. 3/per) (240-5005-00)		
	(ASM. REF. 515-6459-04-ND (Qty. 3), Items 8-15)		

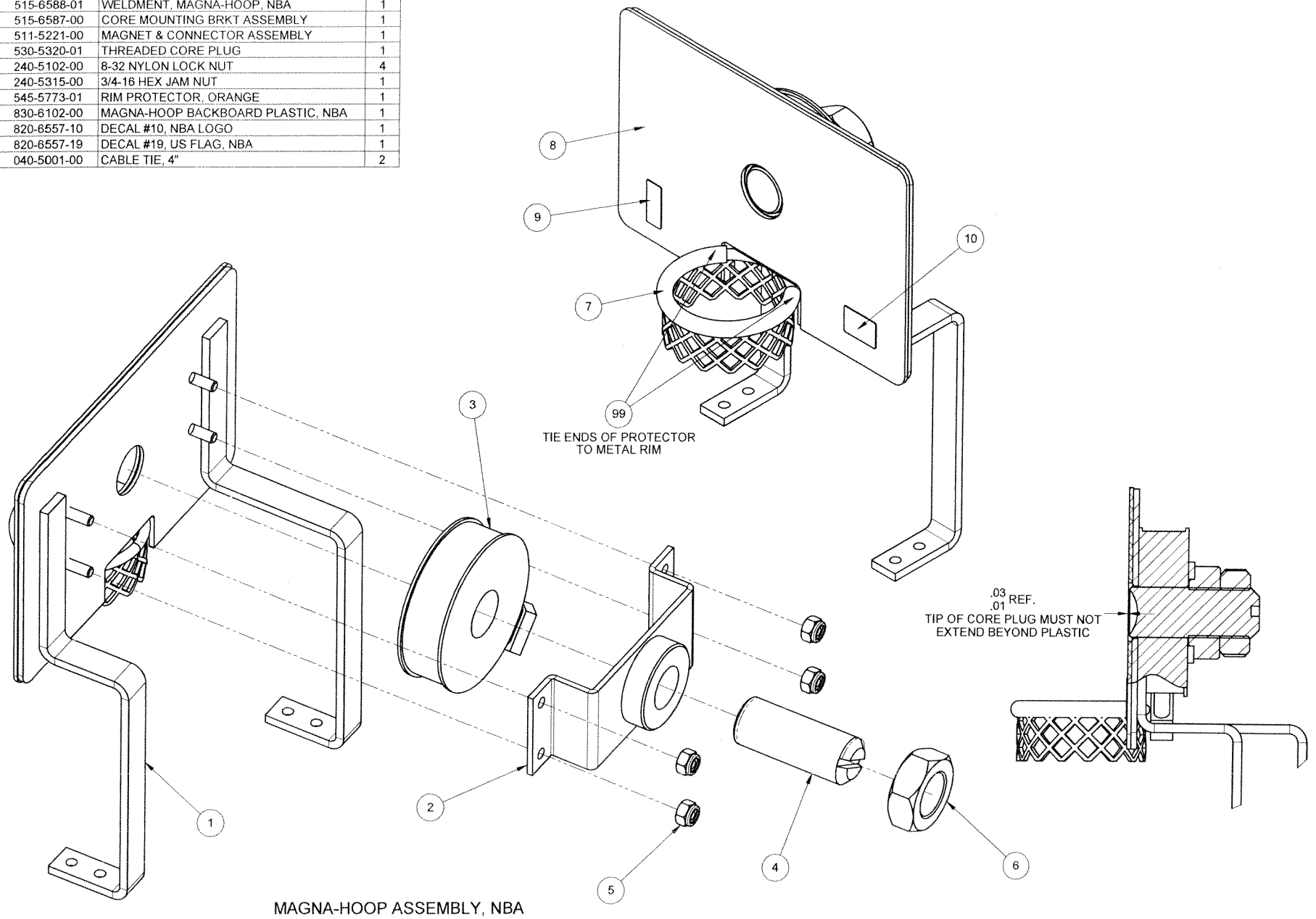
Nr.	BUMPER SWITCH PARTS	QTY.	SPI PART Nr.
16	Switch Bracket	1/per	535-7342-00
	Item 16 is secured by: #8 X 1/2" HWH AB (Zinc) (Qty. 2/per) (234-5101-00)		
17	Bumper Stack (Blade) Switch Assy.	1/per	180-5015-04
	Included with Item 17 : Spoon Switch Actuator (**545-5610-02**). Switch has a Diode (1N4004) (112-5003-00). *Can be replaced with (1N4001) (112-5001-00).*		
18	Switch Body Protect Plate	1/per	535-7344-00
	Items 17 & 18 are secured by: #6-32 X 3/4" HWH Swage (Serr) Zc. (Qty. 2) (237-5976-05)		
	Can substitute Item 17 with 180-5015-05 (ASM. REF. 515-6459-09/R (Qty. 3), Items 16-18)		

ASSOCIATED PARTS **ARE NOT INCLUDED** WITH THE ABOVE ASSEMBLIES.

Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
AP-A	Kit: Plastics *(includes -10, -11 & -12)*	1	803-5000-A9
	Note: *Individual Plastics (830-6101-XX) are not available individually, ordering of kit is required.*		
	Item AP-A is secured Item 3 by: #5 X 7/8" PRH AB (Zinc) (Qty. 2/per) (237-5826-00)		

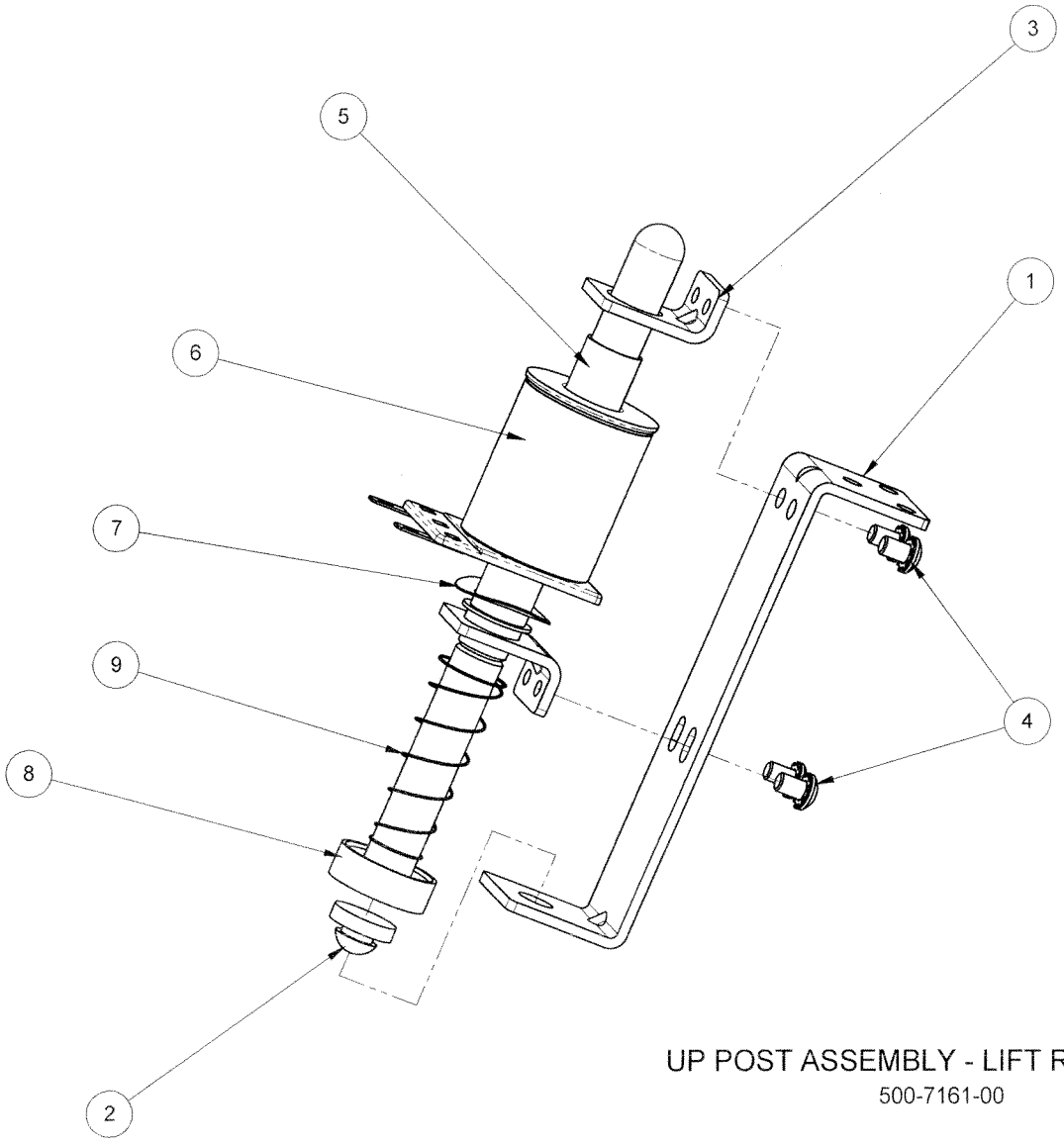
b14

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	515-6588-01	WELDMENT, MAGNA-HOOP, NBA	1
2	515-6587-00	CORE MOUNTING BRKT ASSEMBLY	1
3	511-5221-00	MAGNET & CONNECTOR ASSEMBLY	1
4	530-5320-01	THREADED CORE PLUG	1
5	240-5102-00	8-32 NYLON LOCK NUT	4
6	240-5315-00	3/4-16 HEX JAM NUT	1
7	545-5773-01	RIM PROTECTOR, ORANGE	1
8	830-6102-00	MAGNA-HOOP BACKBOARD PLASTIC, NBA	1
9	820-6557-10	DECAL #10, NBA LOGO	1
10	820-6557-19	DECAL #19, US FLAG, NBA	1
99	040-5001-00	CABLE TIE, 4"	2



MAGNA-HOOP ASSEMBLY, NBA

500-7162-00



ITEM #	QTY	PART #	DESCRIPTION
1	1	535-0313-00	BRACKET - UP POST ASSEMBLY
2	1	545-5105-00	RUBBER BUMPER
3	2	535-5203-03	COIL RETAINING BRACKET
4	4	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS
5	1	545-5847-00	COIL SLEEVE
6	1	090-5044-ND	COIL 26-1200 - NO DIODE
7	1	269-5002-00	SPRING WASHER
8	1	515-7724-00	PLUNGER ASSEMBLY
9	1	266-5022-00	COMPRESSION SPRING-CONICAL

UP POST ASSEMBLY - LIFT RAMP - NBA

500-7161-00

big

Eject (30°) Assembly, 500-6511-01-ND (Items 1-8)

and Associated Parts: See Parts Table Below

Ball is stopped in the Eject Hole and kicked out into the upper Slingshots in the Map Room.

Nr.	30° EJECT PARTS	QTY.	SPI PART Nr.
1	Mounting Bracket 30° Eject (Left)	1	535-8932-02
	Item 1 is secured below the P/F by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2) (234-5101-00)		
2	Coil Retaining Bracket	1	535-5203-03
	Item 2 is secured to Item 1 by: #8-32 X 1/4" PPH MS (Sems) (Qty. 2) (232-5300-00)		
3	Coil, 24-940 [NO DIODE]	1	090-5036-ND
	COIL DOES NOT REQUIRE A DIODE. SEE ⟲ COIL NOTE BELOW FOR DETAILS.		
4	Coil Sleeve (Short) (Formost #10-7077)	1	545-5076-01
5	Spring Washer (17/32" ID X 3/4" X 1")	1	269-5002-00
6	Plunger *(with Nylon Tip)* Assembly	1	515-7197-00
7	Compression (Return) Spring	1	266-5020-00

Nr.	30° EJECT PARTS	QTY.	SPI PART Nr.
8	Rubber Bumper (Grommet)	1	545-5105-00

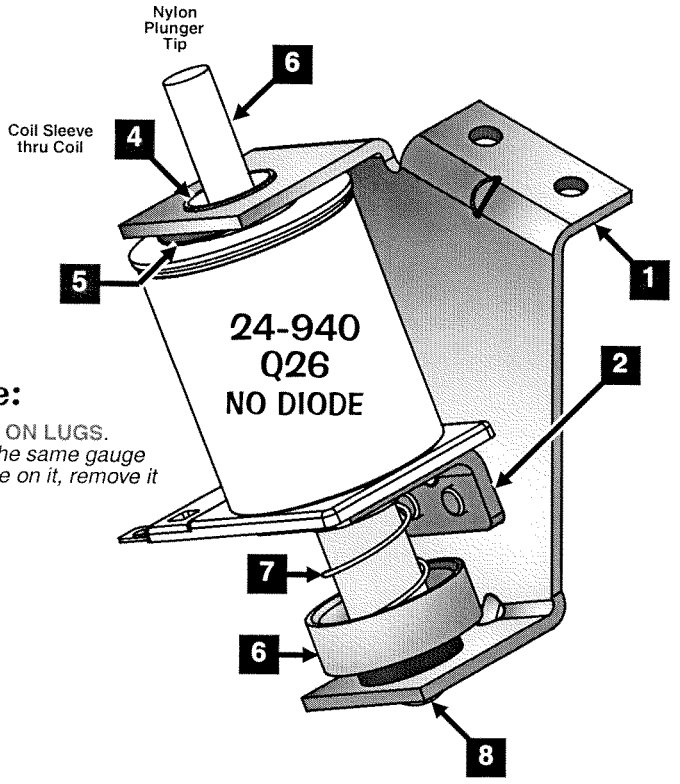
Ordering Note: If **500-6511-01-ND** *is unavailable*, order the individual part(s) actually required.

ASSOCIATED PART **IS NOT INCLUDED** WITH THE ABOVE ASSEMBLY.

Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
AP-A	Switch (Eject) Assembly	1	500-6520-01

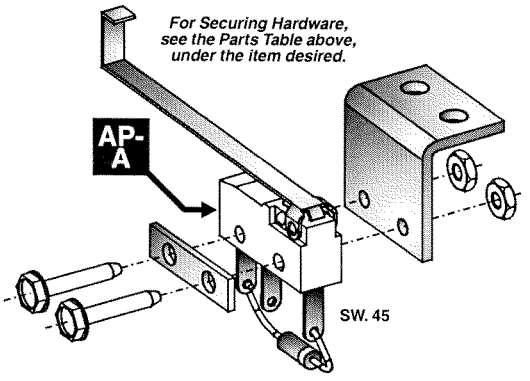
For Individual Items use : Switch Bracket (**535-6173-00**), Micro Switch (**180-5186-01**), Switch Body Protect Plate (**535-6539-00**), Diode 1N4004 (**112-5003-00**), #2-56 X 1/2" Unslt Serr HWH #4 Hd TR3 Black (Qty. 2) **and** (**237-5937-02**) #2-56 Hex Nut (Qty. 2) (**240-5301-00**)

Bracket secured to P/F by: #8 X 1/2" SLT HWH AB (Zinc) (Qty. 2) (234-5101-00)



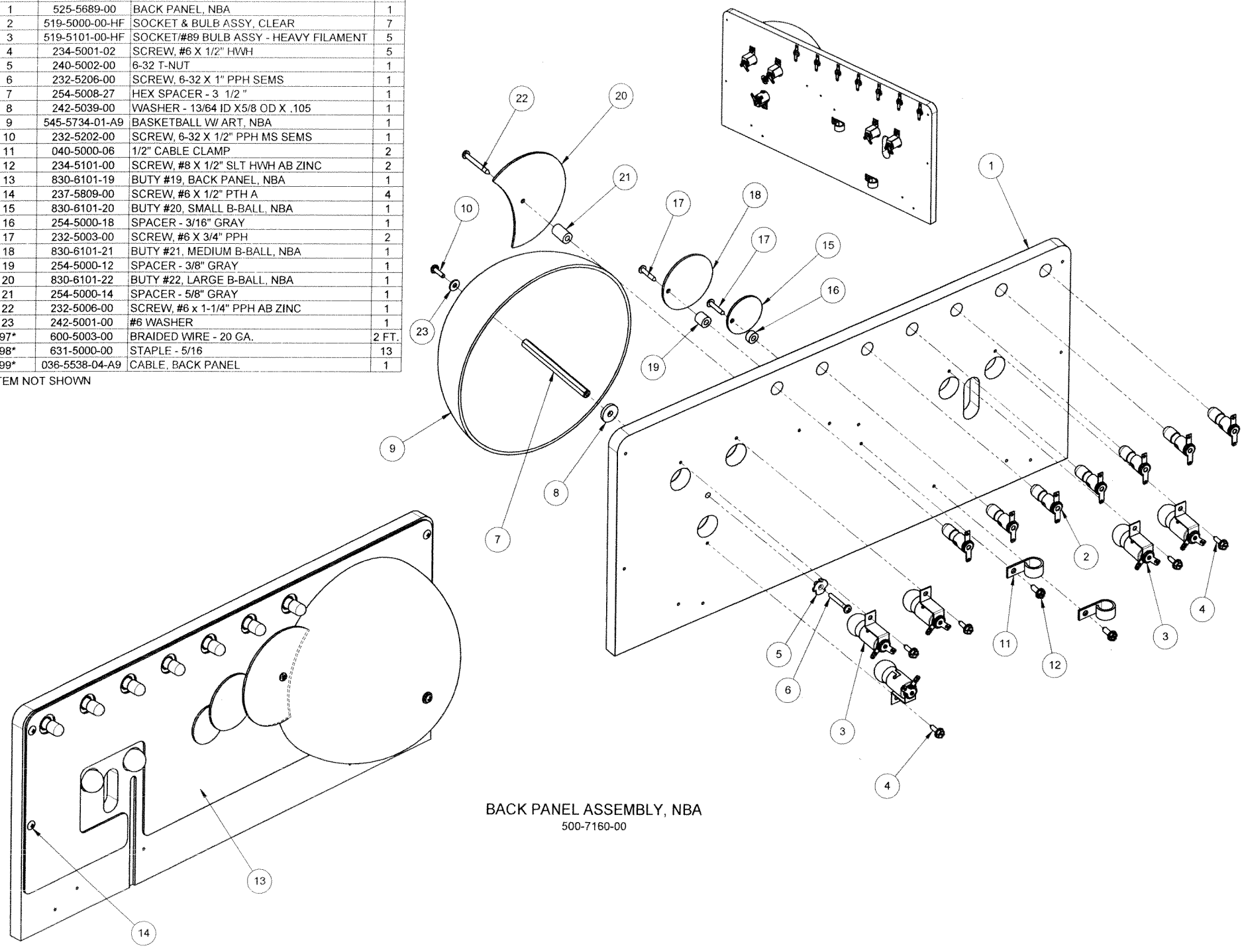
Take Note:

⟲ **Coil Note:** ⟲ NO DIODE ON LUGS.
If replacing with a coil of the same gauge and turn and it has a diode on it, remove it before using.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	525-5689-00	BACK PANEL, NBA	1
2	519-5000-00-HF	SOCKET & BULB ASSY, CLEAR	7
3	519-5101-00-HF	SOCKET/#89 BULB ASSY - HEAVY FILAMENT	5
4	234-5001-02	SCREW, #6 X 1/2" HWH	5
5	240-5002-00	6-32 T-NUT	1
6	232-5206-00	SCREW, 6-32 X 1" PPH SEMS	1
7	254-5008-27	HEX SPACER - 3 1/2 "	1
8	242-5039-00	WASHER - 13/64 ID X5/8 OD X .105	1
9	545-5734-01-A9	BASKETBALL W/ ART, NBA	1
10	232-5202-00	SCREW, 6-32 X 1/2" PPH MS SEMS	1
11	040-5000-06	1/2" CABLE CLAMP	2
12	234-5101-00	SCREW, #8 X 1/2" SLT HWH AB ZINC	2
13	830-6101-19	BUTY #19, BACK PANEL, NBA	1
14	237-5809-00	SCREW, #6 X 1/2" PTH A	4
15	830-6101-20	BUTY #20, SMALL B-BALL, NBA	1
16	254-5000-18	SPACER - 3/16" GRAY	1
17	232-5003-00	SCREW, #6 X 3/4" PPH	2
18	830-6101-21	BUTY #21, MEDIUM B-BALL, NBA	1
19	254-5000-12	SPACER - 3/8" GRAY	1
20	830-6101-22	BUTY #22, LARGE B-BALL, NBA	1
21	254-5000-14	SPACER - 5/8" GRAY	1
22	232-5006-00	SCREW, #6 x 1-1/4" PPH AB ZINC	1
23	242-5001-00	#6 WASHER	1
97*	600-5003-00	BRAIDED WIRE - 20 GA.	2 FT.
98*	631-5000-00	STAPLE - 5/16	13
99*	036-5538-04-A9	CABLE, BACK PANEL	1

* ITEM NOT SHOWN



BACK PANEL ASSEMBLY, NBA
500-7160-00

917

Optional Kits available through your Distributor:

Pinball Location Maintenance Standard Kit (for NBA Pinball) 502-6002-A9

Standard Kit includes : *8 oz. Novus Wax #2 Fine (Red) (**675-0003-01**), Cloth, Rubber Rings (used above playfield), Bulbs (Bulb quantities vary and is limited to 25 per type), Fuses (1/per type) and 4 Pinballs.* ***Note:*** *Quanties, sizes and contents subject to change without notice.*

Pinball Location Maintenance Deluxe Kit (for NBA Pinball) 502-6003-A9

Deluxe Kit includes : *Pinball Location Maintenance Standard Kit as described above plus a quantity of Flipper Rebuild Kits.* ***Note:*** *Quantity varies which equals the same quantity of flippers used in this game.*

▲ THIS GAME KIT INCLUDES (**2**) FLIPPER REBUILD KITS ▲

Plastics*Kit (for NBA Pinball) 803-5000-A9

Plastics Kit includes: *Plastic Sets (830-6101-XX)*

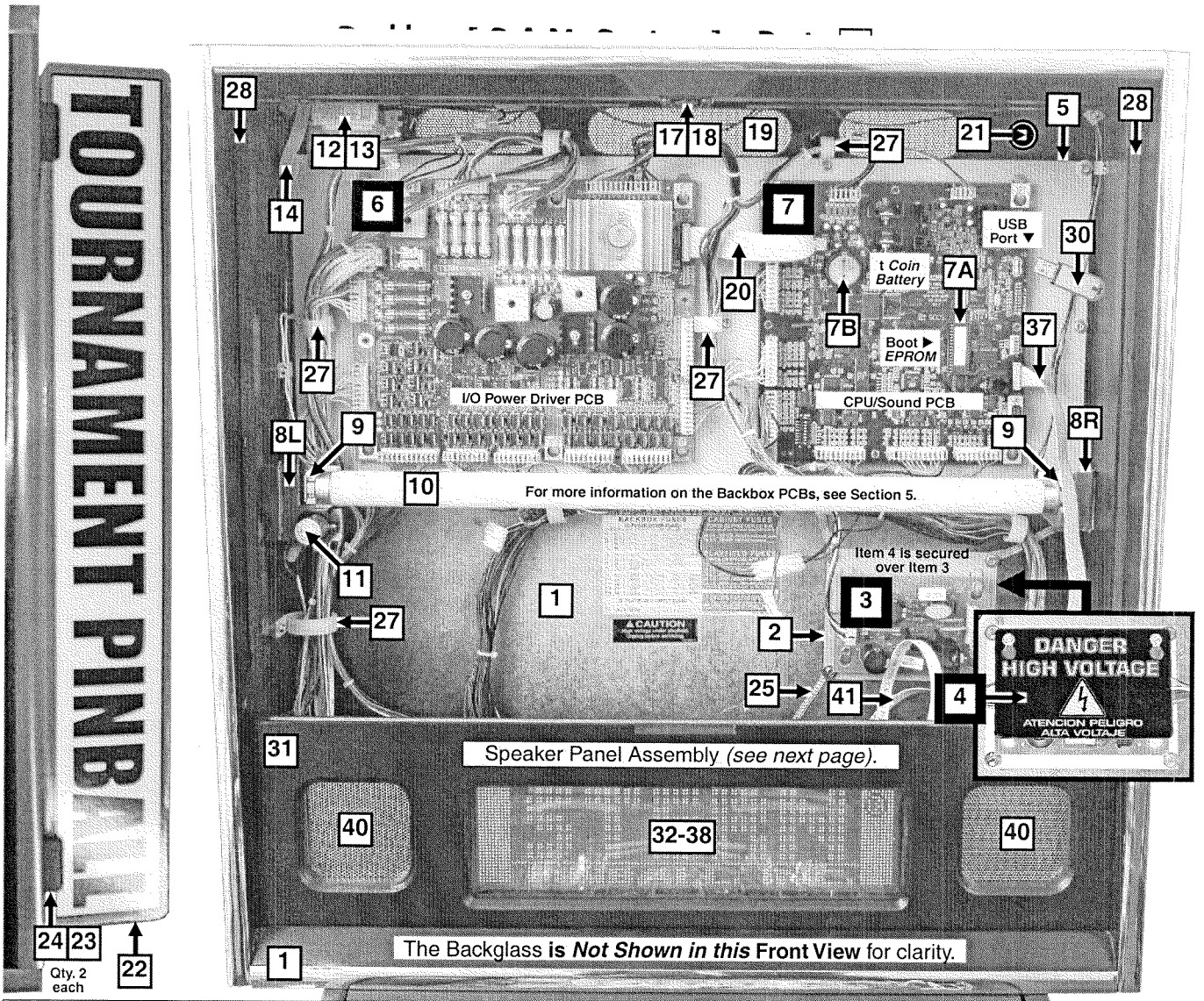
Decals*Kit (for NBA Pinball) 802-5000-A9

Decals Kit includes: *Decal Set (820-6557-XX)*

Mylar*Kit (for NBA Pinball) 802-5001-A9

Mylar Kit includes: *Full Mylar (820-5999-A9)*

Attention: *No individual Plastic or Decal can be ordered separately, unless noted otherwise. Plastics & Decals are subject to change without notice during and / or after production. Key Fobs subject to availability and may or may not be included in the plastic set. All designs, shapes & pieces used subject to change without notice. Kit contents subject to change. Service Bulletin(s) will announce any critical changes, if warranted. The last 2-digits shown on plastics or decals are for reference only.*



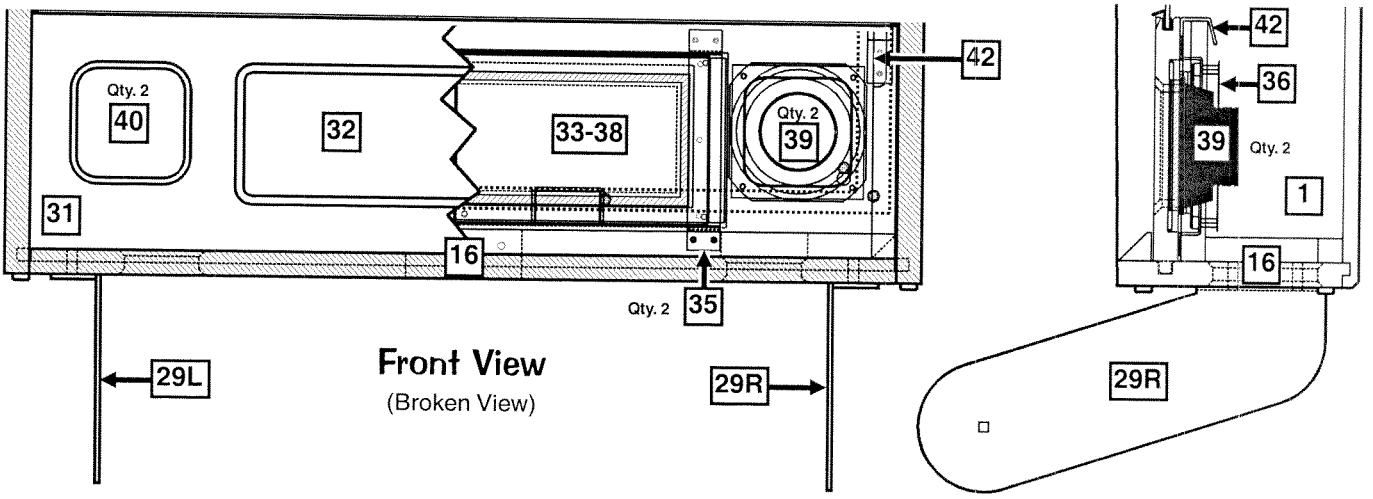
Parts Identification

Nr.	BACKBOX PARTS	QTY.	SPI PART Nr.
1	Backbox NBA™ (No Parts)	1	525-5631-17-A9
	Item 1 Note: Chrome T-Molding is installed and cannot be ordered separately. Fuse Description (**820-6384-00**) **and** High Voltage Caution (uL) (**820-6082-01 & -02**) Decals.		
2	PCB Metal Mounting Plate [Display]	1	535-9769-00
3	Display Power Supply PCB	1	**520-5138-00**
	Item 3 is secured to @ bottom by: #8-32 X 3/8" SHWH Swg. (Zinc) (Qty. 2) (237-5975-00)		
4	Plastic Cover [**DANGER HIGH VOLTAGE**]	1	830-6053-00
	Items 3 & 4 are secured to @ top by: 1-1/4" X 3/8" Plastic Spacer Gray (Qty. 2) (254-5000-05) **and** #8-32 X 1-3/4" SHWH Ser. (Zinc) (Qty. 2) (237-5975-28)		
5	PCB Metal Mounting Plate [I/O+CPU]	1	535-9664-00
	Items 2 & 5 are secured to Item 1 by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/hole) (234-5101-00) **and** #10 Washer 7/32" I.D. X .5" O.D. X 1/16" Thick (Qty. 1/hole) (242-5003-00) *Note: Where a Wire Clamp (Item 27) is mounted, a #10 Washer is not required.*		
6	I/O Power Driver PCB [S.A.M. Sys.]	1	**520-5249-00**
7	CPU/Sound PCB [S.A.M. System]	1	**520-5246-00**
	7A: 8MB EPROM #M27C801-100F1 (**960-5016-00**) *Ordering Note: Programmed EPROM (**965-BOOT-SAM**)* **7B:** Coin Cell Battery (CR2430 3V) (**000-0644-01**) *For USB Memory Stick Information, see Item **30** on the next page.*		
	Items 6 & 7 are secured to Item 5 by: #8-32 X 3/8" SHWH Swage (Zinc) (Qty. 10) (237-5975-00) **and** 1/4" Slf. Rtn. Spacer White (Qty. 5 [I/O] / Qty. 4 [CPU]) (254-5007-05)		
8L	Fluorescent Light Bracket *(Left Style)*	1	535-7739-00
8R	Fluorescent Light Brckt. *(Right Style)*	1	535-7739-01
	Items 8L & 8R are secured to Item 1 by: #10-24 X 1-1/4" Carriage Bolt Square Neck (Qty. 2/per) (231-5012-00), #10-24 Keps Nut (Qty. 2/per) (240-5207-00) **and** 3/4" X 3" Reinforced Strapping Tape (Qty. 1, sold in 12" length only) (626-5040-00)		
9	Fluorescent Lamp Holder (Socket)	2	077-5214-**01**
	Item 9 is secured to Items 8L *and* 8R by: #6-32 X 5/8" PPH MS (Sems) Zinc (Qty. 1/per) (232-5203-00) Lock-In Fluor. Bulb with Yellow Socket Clip (Qty. 1/per) (**545-6271-00**)		
10	Fluorescent Tube 24" (F18T8CW)	1	165-5061-00

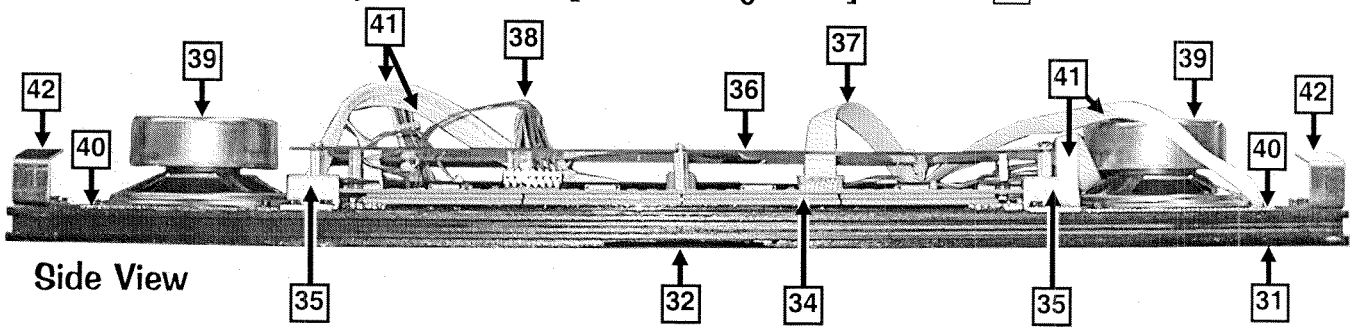
Nr.	BACKBOX PARTS	QTY.	SPI PART Nr.
11	Starter - Fluorescent (FS2 Light)	1	165-5011-01
	Starter Base *(with leads)* [on Item 8L]	1	077-5213-00
	Item 11 is secured to Item 8L by: #4-40 X 1/2" PPH MS (Sems) Zc. (Qty. 2) (237-5813-00)		
12	Ballast Mounting Plate	1	535-8657-00
13	Ballast *CU452-W 1/2" Core 120v 60 Hz 13W*	1	010-5015-00
	Items 12 & 13 are secured to Item 1 by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2) (234-5101-00) >>> CAUTION - VERY HOT" Decal (820-6266-00) ***EU / UK Only :*** *Ballast, 5/8" Core 50/60 Hz (010-5015-01)*		
14	Ground Strap (5")	1	600-5006-05
15*	Roto Lock Male *(on Cabinet)*	1	355-5006-01
16	Roto Lock Female *(R2-0002-02)*	1	355-5006-02
	Item 16 is secured by: #10-24 X 1-3/4" CBSN (231-5022-00), #10-24 Keps Nut (Qty. 2) (240-5207-00), #10-24 X 2" CBSN (231-5045-00) **and** #10 Washer 7/32" I.D. X .5" O.D. X 1/16" (Qty. 5) (242-5003-00); *See opposite next page.*		
17	Lock Mounting Plate	1	535-0072-00
18	Lock 5/8" Barrel, 3/4"ø, 1.5" Flat Cam	1	355-5055-00
	Items 17 & 18 are secured by: #8 X 1/2" TP Torx T20 Black (Qty. 2) (237-6173-05)		
19	Back Vent Grill 2-1/2" X 18"	1	545-5072-02
20	Ribbon Cable, 20-Pin (3.5")	1	036-5000-350
	***Item 20 connects the** I/O Pwr. Drvr. PCB to the CPU/Sound PCB; For 14-Pin see next page.*		
21	Button Hole Plug (Blk) (**Happ #52-6214-00**)	1	500-6566-00
	***Item 21** plugs the Access Hole required if using optional **BETAbrite Sign** or **Data cables**.*		
22	Header Sign **TOURNAMENT PINBALL**	1	545-6133-00
23	Bracket, Tournament Sign (Black)	2	535-0081-02
	Item 22 is mountied to item 23 with #8-32 x 3/8 PPA screw (Qty 2/per) (232-5303-01) & #8-32 Nylock Nut (Qty 2/per) (240-5102-00). Item 23 is secured to Item 1 by: #8 X 5/8" PPH (Qty. 2/per) (232-5101-01)		

PARTS TABLE & VIEWS CONTINUED ON THE NEXT PAGE. ▶

Backbox [S.A.M. System] - Parts



Speaker Panel [S.A.M. System] - Parts



Nr.	BACKBOX PARTS	QTY.	SPI PART Nr.
	◄ *PARTS TABLE & VIEWS CONTINUED FROM THE PREVIOUS PAGE.*		
25	Braided Wire (1-1/2 Feet)	1	600-5001-00
	Item 25 is secured by: Staple 5/16" (Qty. 23) (631-5000-00)		
26*	Zip Cable Tie (Screw Down Style)	5	040-5005-00
	Item 26 is secured @ inside bot. by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00)		
27	Clamps [Multiple Sizes]	27	040-5000-XX
	Item 27 secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00) ***For the following sizes, replace -XX with:*** **.1/4"** Double = -23 (Qty. 5); **1/2"** Single = -06 (Qty. 3); **3/4"** Single = -08 (Qty. 4); **1"** Single = -09 (Qty. 1); **1-1/4"** Double = -30 (Qty. 1)		
28	Foam 3/16" Thick X 1/4" Wide X 12"	6	626-5026-00
	Above Item 28 is self-adhesive. *17.5" strip on each side. Sold in 12" Lengths only.*		
29L	Pivot Hinge *(Left Style)*	1	535-7999-00
29R	Pivot Hinge *(Right Style)*	1	535-7999-01
	Items 29L-29R are secured to Backbox by: 1/4"-20 X 1-1/4" C.B. Sq. Neck (Qty. 4) (231-5003-00) **and** 1/4"-20 Flange Nut (Qty. 4) (240-5300-00) **Items 29L-29R are secured to Cabinet by:** Spacer Hex Nut 1/2" O.D. - 1/4-20 X 1/2" TD (Black) (Qty. 1/per) (254-5042-00), Nylon Spacer (Black) (Qty. 1/per) (242-5084-00), 1/4-20 X 1/2" Carriage Bolt Square Neck (Black) (Qty. 1/per) (231-5072-00) **and** Washer 1" O.D. X 1/2" I.D. X 1/16" (Black) (Qty. 1/per side, *only if required*) (242-5087-00)		
30*	Memory Stick USB 1.1+ [Generic] 64MB		970-0064-00
	Memory Stick USB 1.1+ [Generic] 128MB		970-0128-00
	***Item 30** was not included with your game. Read the inside cover or go on-line for more info.* To order with the latest game code copied onto it, add -A3 to the Part Nr. (**970-0128-00**-A3). File(s) can be downloaded from our website *(Files are 25MB or larger, DSL or Fast Modem recommended).* Not all manufacturers of Memory Sticks are compatible with our system. Test it out, if it doesn't work properly, return your purchase and order the memory stick through you local pinball distributor *(Stern Pinball Memory Sticks guaranteed compatible).*		

(ASM. REF. 505-6002-A3-A3, Items 1-42 Only, [29-30 not included in assembly])

Take Note:

* An asterisk (*) indicates item(s) are not noted in the pictorials.

Nr.	SPEAKER PANEL PARTS	QTY.	SPI PART Nr.
31	Speaker Panel (Black Wood)	1	525-5515-00
32	Plastic Shield (Display Front Cover)	1	545-5884-00
	Item 33 is secured to inside Item 31 by: #6 X 3/8" SHWH AB (Zinc) (Qty. 8) (234-5000-00)		
33*	Foam 3/16" Thick X 1/4" Wide X 12"	6	626-5026-00
	Above Item 33 is self-adhesive. *Located between Items 32-34. Sold in 12" Lengths only.*		
34	128 X 32 Dot Matrix Display PCB	1	520-5052-00
	// EURO ONLY RoHS // 128 X 32 DM CES PCB		520-5052-05
	// EURO ONLY RoHS // Dot Matrix Bezel		545-6281-00
	Item 34 is secured to Item 35 by *(at corners)*: 3/16" X 3/8" Spacer Gray (Qty. 4) (254-5000-18) **and** #6-32 X 1/2" SHWH Swage (Serr) Zinc (Qty. 4) (237-5976-03)		
35	Dot Matrix Display Mounting Bracket	2	535-8368-01
	Item 35 is secured to Item 31 by: #8 X 1/2" SHWH AB (Zinc) (Qty. 4/per) (234-5101-00)		
36	Plastic Shield (Display Back Cover)	1	830-6040-00
	Item 36 is secured to Item 34 by: 1/2" X 1/4" Hex Spacer #6-32 Tap (Qty. 4) (254-5008-03), 3/4" X 1/4" Hex Spacer #6-32 Tap (Qty. 2) (254-5008-04), #6-32 X 1/4" PPH MS (Sems) Zinc (Qty. 2) (232-5200-00) **and** #6-32 X 3/8" PPH (Qty. 6) (232-5201-00)		
37	Ribbon Cable, 14-Pin (33")	1	036-5260-33
	// EURO ONLY RoHS // LED Ribbon Cable Filter PCB		520-5259-00
	***Item 37 (14-Pin) connects the** 128 X 32 Dot Matrix Display PCB to the CPU/Sound PCB.*		
38	Display Cable *(Wiring Harness)*	1	036-5454-01
	// EURO ONLY RoHS // LED Display Adapter Harness		036-5520-00
39	Speaker (Shld.) 4" 8Ω #MG ELE 4060SH	2	031-5004-02
40	Speaker Grill *(Black w/Artwork)*	2	535-8081-A9
	Items 39-40 are secured by: #8 X 1/2" SHWH AB (Black) (Qty. 4/per) (234-5101-01)		
41	Ground Strap (25") [**2 per : Items 35 & 39**]	4	600-5006-25
42	Speaker Panel Hook Bracket	2	535-7009-02
	Item 42 is secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2/per) (234-5101-00)		

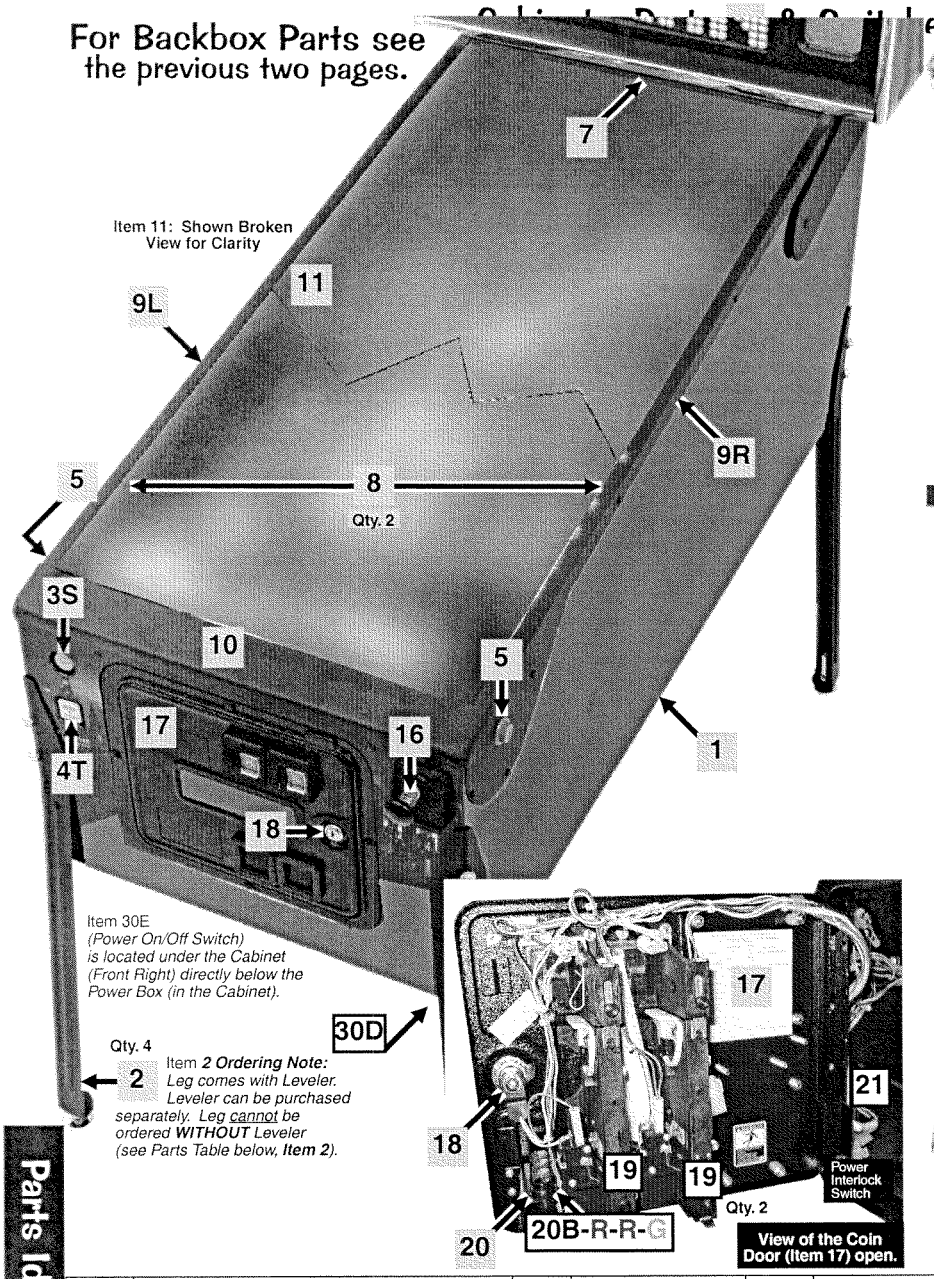
(ASM. REF. 515-6888-05, Items 31-42 Only [includes wiring])

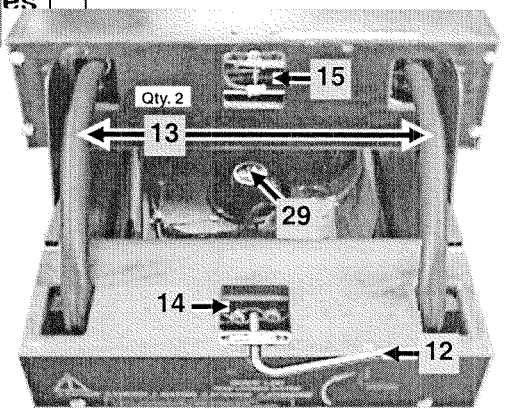
Nr.	BACKGLASS PARTS	QTY.	SPI PART Nr.
i*	Glass (Tempered) 25.906" X 19.187" X .125"	1	660-5038-02
ii*	NBA™ Film Art (#A9)	1	830-52A9-00
iii*	Top Plastic Channel - 26"	1	545-5018-15

Nr.	BACKGLASS PARTS	QTY.	SPI PART Nr.
iv*	Bottom Plastic Lift Channel - 26"	1	545-6313-01
v*	Plastic Edging (Left/Right) - 18-1/8"	2	545-5018-14
	Items i-v are secured to Item i by: 3M Tape (Double-Sided), 12" (Qty. 1) (626-5080-00) ***Note:** Only 6" required, sold in 12" lengths only.*		

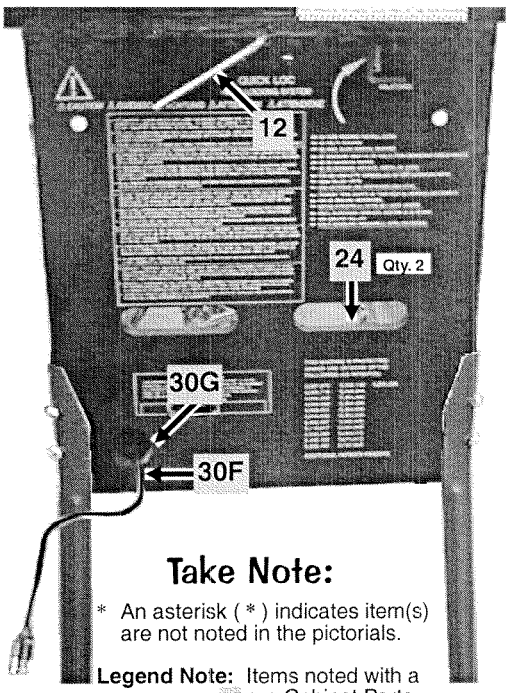
(ASM. REF. 515-5450-00-A9 , Items i-v)

Parts Identification





View of the back of the Cabinet with the Backbox in the down position.



Take Note:

* An asterisk (*) indicates item(s) are not noted in the pictorials.

Legend Note: Items noted with a cyan square are Cabinet Parts. Items noted with a white square ☐ are Switches.

View of the Coin Door (Item 17) open.

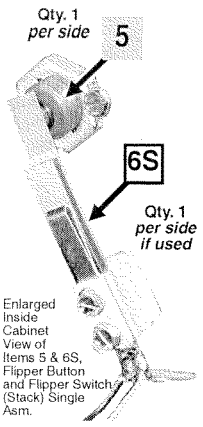
Parts Identification

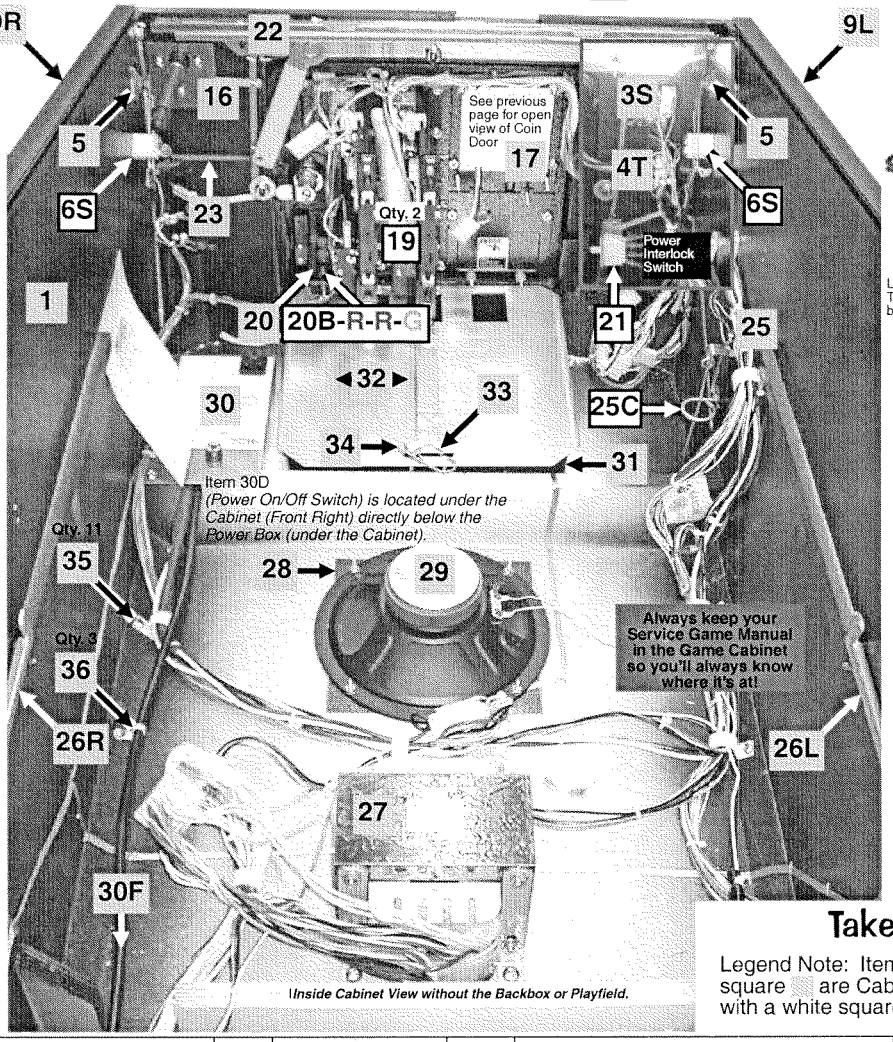
Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.
1	Screened Cabinet NBA™ (No Parts)		525-5395-15P-A9
2	Black Leg with Leveler Asm.	4	500-5921-50
	Item 2 is secured by: Leg Bolt Back Plate (**535-5703-00**) **and** Leg Bolt 3/8" X 16 X 2-1/2" Hex 5/8" Hd. (2/per) (231-5001-01) *Leg Leveler **ONLY** (3/8"-16 X 3") (500-5017-00).*		
3S	**Start Button** (Green Round) with Sw. + Lamp	1	**500-6388-44-TL**
4T	**Tournament Button** (Yel. Sq.), w/Sw. + Lamp	1	**500-6587-06-TL**
	Item 3S & 4T includes the Switch & Lamp (No Wiring; desolder old wiring where required). *Switch or Bulb replacement:* ↻ ***TWIST*** ↺ ***LOCK (-TL) >> not snap-in <<*** ***Assembly Parts Included*** *:* Microswitch (**180-5174-00**); #555 Wedge Base Clear Bulb (**165-5002-00**); *If **4T** is not desired, use optional Button Plug Black (500-6566-00). Requires 3-Lug Terminal Strip (055-5204-03) and Diodes, 1N4004 (Qty. 2) (112-5003-00) inside cabinet under button(s) for **Lamp Operation** (Diode for Switch, located on Switch.)*		
5	**Flipper Button** (Red) Assembly (No Switch)	2	500-5026-32
	Item 5 is secured by: Pal Nut for Flipper Button (Metal) (Qty. 2/per) (240-5003-01) ***Pal Nut inside cabinet secured by:*** #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00) **and** Washer (Zinc), .187" ID X .875" OD X .048" Thick (Qty. 1/per) (242-5059-00)		
6S	Flipper Switch Single Assembly	2	500-6889-01
	Assembly Parts Included *:* Flipper Switch Stack Single *(Paliney Contact)* (**180-5160-01**) **and** Capacitor - Ceramic .05 Mfd 25 volt (**130-5001-00**) **Item 6S/6D are secured to Cab. by:** #6 X 1-1/4 SHWH AB (Zinc) (Qty. 2/per) (237-5959-00)		
6D	Flipper Switch Double Assembly	0	500-6890-01
	Assembly Parts Included *:* Flipper Switch Stack Double *(Paliney Contact)* (**180-5164-01**) **and** Capacitor - Ceramic .05 Mfd 25 volt (**130-5001-00**) **Item 6S/6D are secured to Cab. by:** #6 X 1-1/4 SHWH AB (Zinc) (Qty. 2/per) (237-5959-00)		

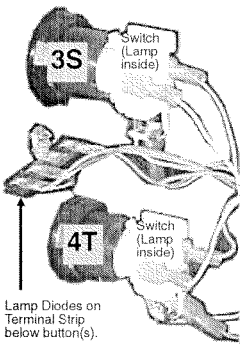
Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.
7	Rear Glass Channel 20-3/8" Length	1	545-5038-00
8	Plastic Channel 42-5/8" Lg. (Left/Rt.)	2	545-5017-00
9L	Side Armor (Left) with Button Guard	1	535-9596-00
9R	Side Armor (Right) with Button Guard	1	535-9596-01
	Items 9L & 9R are secured @ front & side by: Pem Stud 1/4 X 1" Flange Head Black (Qty. 1/per) (237-6116-01), 1/4-20 Flange Nut (Qty. 1/per) (240-5300-00) **and** #8 X 1/2" T20 Tamper Proof Black (Qty. 5/per) (237-6173-05); **@ rear (backbox) by:** #10-24 X 1" Sq. Neck Carrg. Bolt Black (Qty. 1/per) (231-5021-00) **and** #10-24 Hex Nut (Qty. 1/per) (240-5202-00)		
10	Front Molding (Black) < NO BUTTON HOLE >	1	**500-6882-02-00**
	Item 10 includes: Self-Adhesive Foam Rubber 3/8" X 3/16" X 20-3/8" (3') (626-5001-00) *Items **10** works with Item **22 (next page)** ONLY.*		
11	Playfield Glass (Tempered) 21" X 43" X 3/16"	1	660-5001-00
12	Hex Key Allen Wrench 5/16"	1	777-0001-00
13	Corrugated Tubing Black **1"ø X 2.6' Lg.**	1	605-5008-03
	***Above Item 13** covers the Cable Wiring Harnesses going into the Backbox from the Cabinet.*		
14	Roto Lock Male (R2-0055-02)	1	355-5006-01
	Item 14 is secured by: #10-24 X 1-3/4" Carriage Bolt Square Neck (Qty. 2) (231-5022-00), #10-24 Nylon Stop Nut (Qty. 2) (240-5206-00) **and** #10 Washer, 7/32" ID X 1/2" OD X 1/16" Thick (Qty. 2) (242-5003-00)		
15	Roto Lock Female *(on Backbox)*	*1*	*355-5006-02*
16	Ball Shooter (Plunger) Assembly	1	**500-6146-00-04**

PARTS TABLE & VIEWS CONTINUED ON THE NEXT PAGE. ▶

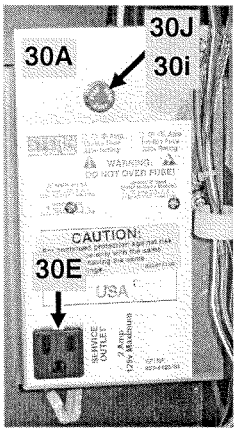
Cabinet - Parts ▩ & Switches ☐ Continued


Qty. 1 per side
5
6S
Qty. 1 per side if used
Enlarged Inside Cabinet View of Items 5 & 6S, Flipper Button and Flipper Switch (Stack) Single Asm.

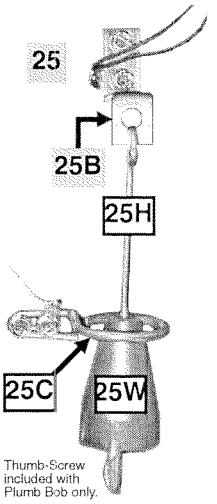




Enlarged Inside Cabinet View of Items 3S, 4T and 25 (25B, 25C, 25H & 25W), Plumb Bob Tilt Switch.



Enlarged Inside Cabinet View of Items 30, Power Box (30A), Service Outlet (30E), Fuse (30i) and Fuse Holder (30J).



Take Note:

Legend Note: Items noted with a cyan square ▩ are Cabinet Parts. Items noted with a white square ☐ are Switches.

Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.
◄ *PARTS TABLE & VIEWS CONTINUED FROM THE PREVIOUS PAGE.*			
17	Coin Door 2-Cht $V Up-Stk. 4-Button Bracket	1	501-5018-172
	Item 17 is secured by: 1/4"-20 X 1-1/4" Carriage Bolt Square Neck (Qty. 4) (231-5003-00) 1/4"-20 Flange Nut (Qty. 4) (240-5300-00) **and** Fend Washer 1/4" I.D. X 1" O.D. (Qty. 3) (242-5009-00) ***Note:*** *For Coin Door other than USA call Technical Support for SPI Part Nr.*		
18	Lock 7/8" Barrel, 435X, Offset Cam	1	**355-5021-03K**
19	Coin Door Switch (USA) (Happ)	2	180-5024-**01**
	ALT. SW.: 19C: Coin Door Switch (USA) (Coin Control) (**180-5024-00**) **ALT. SW.: 19J:** Coin Door Switch (¥ Japan) (**180-5091-00**)		
20	4-Button Bracket *(for Service Menu Buttons)*	1	535-6860-04
	SWITCH: 20B: Push-Button Service Switch (**Black**) (**180-5192-00**) **SWITCH: 20R:** Push-Button Service Switch (Red) (Qty. 2) (**180-5192-02**) **SWITCH: 20G:** Push-Button Service Switch ( ) (**180-5192-04**)		
	Ordering Note: *Securing hardware for switches included. Decal in kit sold separately.*		
21	Power Interlock-Memory Protect Switch Asm.	1	500-5808-05
	Assembly Parts Included : Mounting Bracket (**535-9794-00**), Power Interlock (Playfield) Switch (**180-5136-00**) **and secured by:** #8 X 1/2" SHWH AB (Zinc) (Qty. 2) (234-5101-00)		
22	Front Molding Lockdown Asm.	1	500-6881-00
	Item 22 is secured by: #10-24 X 1-1/4" Carr. Bolt (Qty. 2) (231-5012-00) **and** #10-24 Keps Nut (Qty. 2) (240-5207-00)		
23	Lockdown Spring *(connected to handle)*	1	265-5008-00
	Item 23 is secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1) (234-5101-00) **and** #10 Washer, 7/32" ID X 1/2" OD X 1/16" Thick (Qty. 1) (242-5003-00)		
24	Grills 2-1/2" X 18" *(on Back & Bottom)*	2	545-5072-02
25	Plumb Bob Tilt Switch *Indivual Parts Only*		***Ind. Parts Only***
	SWITCH: **25B:** Bracket for Hanger Wire (**535-5221-00**) **25C:** Contact Wire Form (**535-7563-01**) **25H:** Hanger Wire (**535-5319-02**) **25W:** Plumb Bob Weight (**535-5029-00**) *(includes Thumb-Screw)*		
	Item 25B is secured to Cabinet by: #6 X 5/8" SHWH AB (Zinc) (Qty. 4) (234-5002-00)		
26L	Slide & Pivot Support Bracket (Left)	1	535-5989-00
26R	Slide & Pivot Support Bracket (Right)	1	535-5990-00
	Items 26L & 26R are secured by: #10-24 X 1-1/4" Carriage Bolt Square Neck Black (3/per) (231-5012-00) **and** #10-24 KEPS Nut (3/per) (240-5207-00)		

Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.
27	Transformer 5.7VAC *(with Ballast Winding)*	1	010-5012-01
	Item 27 is secured by: 1/4"-20 X 5/8" PPH MS (Zinc) (Qty. 4) (237-5854-00) **and** 1/4" Split Lock Washer (Qty. 4) (244-5000-00)		
28	Woofer (Speaker) Grill 7" X 7"	1	545-5072-03
29	Woofer 8" ø Round 8010 4Ω	1	031-5007-01
	Items 28 & 29 are secured by: #6-32 X 1-1/4" Fin Shank Screw (Qty. 4) (237-5883-00) **and** #6-32 Keps Nut (Qty. 4) (240-5008-00)		
30	Power Input Box Asm. + Univ. Cable	1	515-5360-08
	30A: Power Box *(No Parts)* Mounting Frame (**535-5932-00**) **30B*:** Line Filter (**150-5000-00**) **30C*:** Varistor* TNR159211KM (Domestic) (**150-5001-00**) *or* Varistor TRM15G431KM (Euro) (**150-5002-00**) SWITCH: **30D:** On/Off Rocker Switch + Bracket Assembly (**515-7085-00**) ***30D incl.:*** Switch, APEM R2101C5NBB (**180-5001-03**) + Bracket (**535-8318-00**) **30E:** Service Outlet (3-Prong / US) (**180-5008-01**) / International **N/A** **30F:** Line Cord 10' ROJ 3" + Ring Terminal Asm. (**515-6566-00**) **30G:** Recessed (Black) Cup *(rear of Cabinet)* (**545-5122-00**) **30H*:** Snap Bushing 9/16" (White) (**280-5001-01**) **30i:** Fuse 8 Amp 250V Slo-Blo (Domestic) (**200-5000-05**) *or* Fuse 5 Amp 250V Slo-Blo (International) (Qty. 2) (**200-5003-00**) **30J:** Fuse Holder (**205-5001-00**)		
	Universal Cable & Jumper Caps *(all voltage variations): See the Yellow Pages, Page y 10.*		
31	Cash Box Plastic Bottom	1	545-5090-00
32	Cash Box Cover (Validator)	1	535-5013-03
33	Cash Box Lock Bracket (U-Wire)	1	535-7562-00
	Item 33 is secured by: #8 X 5/8" HWH AB (Green) (Qty. 2) (234-5102-04)		
34	Large Hair-Pin Clip	1	535-7772-00
35	Clamps [Multiple Sizes]	27	040-5000-XX
	Item 35 is secured to Item 1 by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00) ***For following sizes, replace -XX with:*** 3/4" Single = -08 (Qty. 9); 1-1/2" Single = -10 (Qty. 3)		
36	Zip Cable Tie (Screw Down Style)	5	040-5005-00
	Item 36 is secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00)		
37†	Meter +12VDC ***with*** *Bracket Optional*	*opt.*	**G-0053-013-102**
	† *Meters (Diode included) are optional and were not included in this Pinball Machine. Order without the bracket use* ***G-0053-013-102A****. More information or Qs? Call Technical Support.*		

Parts Identification

Main Playfield Top - Miscellaneous Parts and Brackets

Nr.	THE PLAYFIELD	QTY.	SPI PART Nr.
Main	P/F Screened w/ Inserts & NO Parts	1	830-5100-A9
P/F	P/F Complete w/ Inserts & ALL Parts	1	505-6004-A9-A9

Nr.	MISC. PARTS (ABOVE)	QTY.	SPI PART Nr.
1	Arch (Black Metal) [*no Forks*]	1	535-8392-01

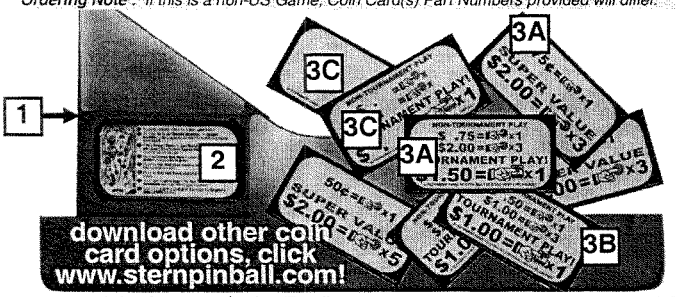
Item 1 is secured to Item 9 below by: #10-32 X 5/16" PFH U/C MS (Zinc) (Qty. 2) (237-6013-00) ***Usage Note:*** *When replacing the Arch,* order new replacement **Nelson Protect Strips 7-5/8"** *(not included)* (Qty. 2) (545-5212-04; use -02 for 8-9/16" size)
For Decals, see ***Playfield Top - Plastics Kit, Decals & Mylar Kits.***

2	Inst. Card [Eng./Spanish] NBA™	1	755-51A9-12-Y

Note : Visit ***www.sternpinball.com*** *for a PDF copy of the Game Instruction Card which will also have any translated Instruction Cards made for this game. Find Game Link or Archives.*
Spanish *755-51A2-**12**-Y;* ***German*** *755-51A2-**03**-Y;* ***Italian*** *755-51A2-**04**-Y;* ***French*** *755-51A2-**05**-Y.*

3A	Coin Card (2-Sided) USA 10 Default	1	755-5400-11-Y
3B	Coin Card (2-Sided) USA 5	1	755-5400-08-Y
3C	Coin Card (2-Sided) *Blank for Custom*	1	755-5400-04-Y

For Coin Card views, see below or ***online :*** *http://www.sternpinball.com/coinagecards.shtml*
Ordering Note : *If this is a non-US Game, Coin Card(s) Part Numbers provided will differ.*



4	Light Cover *w/ tabs* (Red)	2	550-5031-03
4A	Light Cover *w/ tabs* (Amber)	3	550-5032-03
4Y	Light Cover *w/ tabs* (yellow)	2	550-5032-06
5	Light Reflector (Silver Plst.) REF540N	2	545-5409-01
6	Bracket	1	535-9079-00
	GATE	1	535-5307-09
7	Bubble Level Assembly	1	500-6815-00

Assembly Parts Included : **Level** 8mm Empire #0224 (**545-6001-01**) or **Level Mount** (545-6068-00). **Flange secured by:** #6-32 X 1/4" PPH MS (no Sems) Zinc (237-5500-00) and #6-32 Keps Nut (240-5008-00). **Item 7 is secured to the Wood Rail by:** #6 X 1-3/4" PPH AB (Zinc) (Qty. 2) (232-5009-00)

8	Pinball (Steel) 1-1/16" ø	4	260-5000-00

Nr.	MISC. BRACKETS (ABOVE)	QTY.	SPI PART Nr.
9	Shooter Ramp (Shooter Lane)	1	535-8145-00
10	Bracket, Playfield Hanger	2	535-8385-00

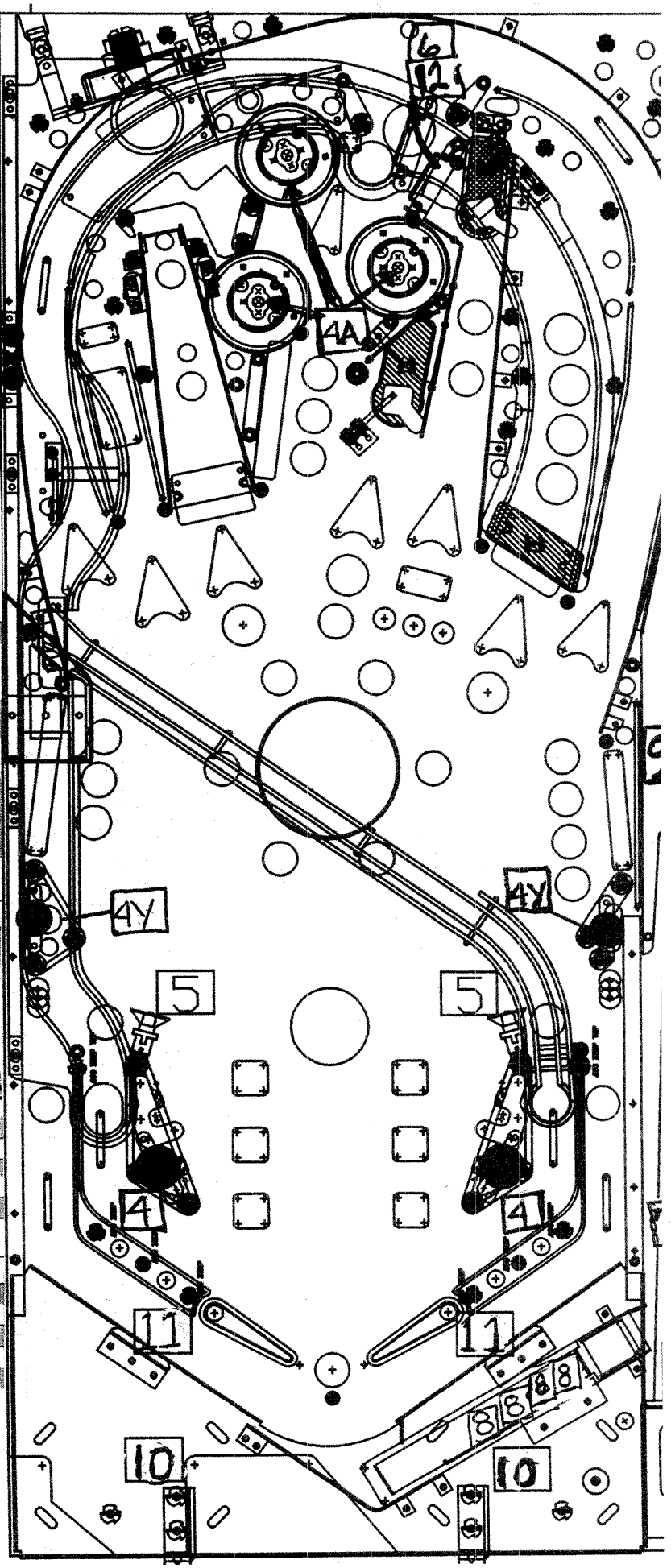
Item 10 is secured to the Playfield (P/F) by: #8-32 X 7/8" Unslotted HWH MS Zinc (Qty. 2/per) (237-5890-00) **and** #8-32 T-Nut (Qty. 2/per) (240-5101-00)

11	Bracket, Arch Retaining (Hold-Down)	2	535-8394-00

Item 11 is secured to the P/F by: #8 X 1/2" SHWH AB (Zinc) (Qty. 3/per) (234-5101-00)

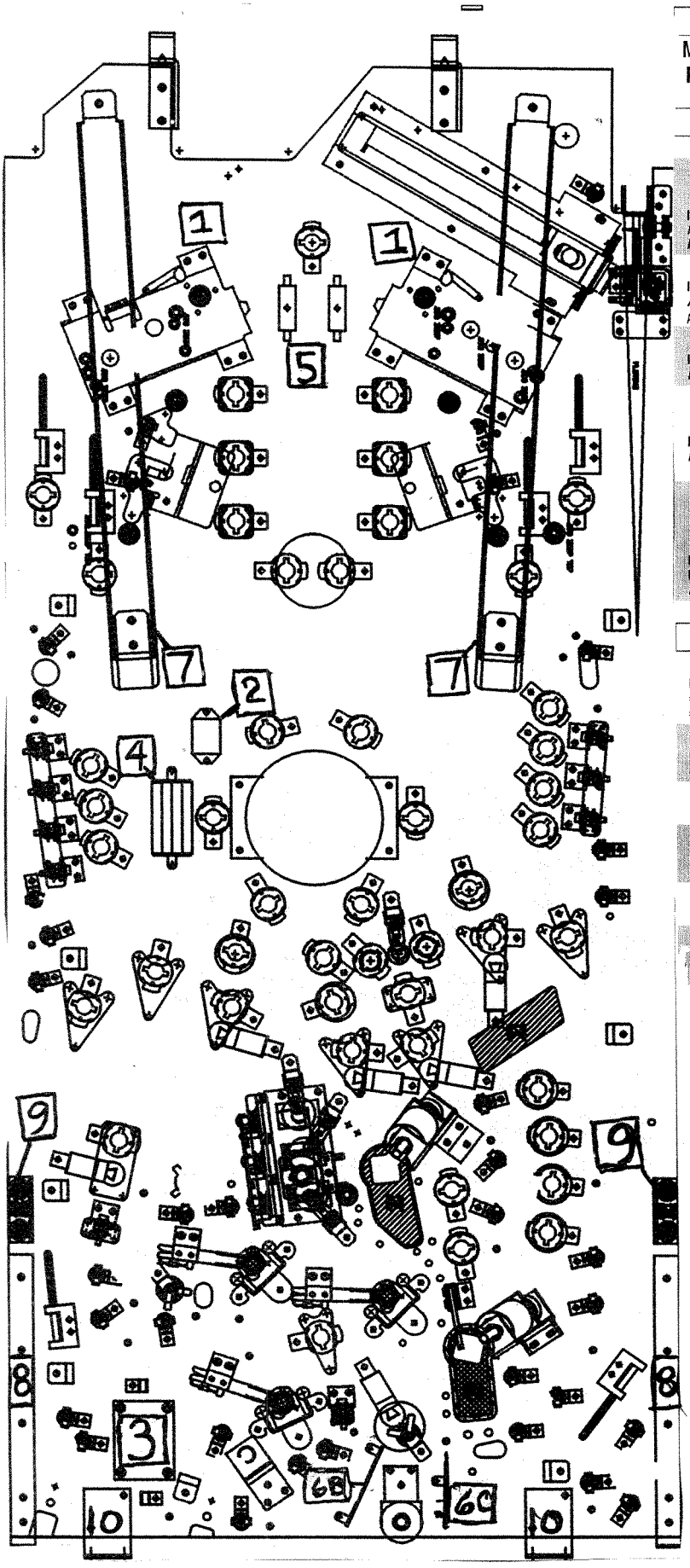
12	Bracket	1	535-5269-06
	Gate	1	535-5307-02

Nr.	MISC. PARTS	QTY.	SPI PART Nr.



Parts Identification

Main Playfield Bottom - Miscellaneous Parts ■ and Brackets



Nr.	THE PLAYFIELD	QTY.	SPI PART Nr.
Main P/F	P/F Screened w/ Inserts & NO Parts	1	830-5100-A9
	P/F Complete w/ Inserts & ALL Parts	1	505-6004-A7-A9

Nr.	MISC. PARTS (BELOW)	QTY.	SPI PART Nr.
1	Insulation Fiche Paper (under Lower Flippers)	2	545-5721-00
2C	Relay + Conn. Asm.	1	511-5211-00
2S	Relay + Conn. Asm.	0	511-5181-01

Item 2 is secured by: #6 X 1/2" SHWH AB (Zinc) Red (Qty. 2/per) (234-5001-02)
For more details on Items 2C & 2S, see the Yellow Pages, Backbox Wiring, Page y 3.
Individual Part Reference Only: *Relay Picker #PC113-2C-C1-24D-LD-X (190-5004-00)*

3	PCB, OPTO Transceiver Amplifier	1	520-5239-01

Item 3 is secured by: #6 X 3/4" SHWH AB (Zinc) (Qty. 4) (234-5003-00)
Application Note : *Required for OPTO Transceiver Pairs (500-6775-01) listed on the next page (... Switches). See the Yellow Pages, PCBs, Pages y 42 – y 43.*

4	Resistor, 10W 5Ω RJ X4 RCD K5-451	4	121-5000-00

Item 4 are soldered to Item 4A (Qty. 2). *For more details on Item 4, see the Yellow Pages, Backbox Wiring, Page y 3. To order Item 4 X4 soldered to Terminal Strip, use 511-5200-00.*

5	3A 250v Slo-Blo Fuse	1	200-5000-08
	Fuse Clip Holder (Socket)	1	205-5000-01

Item 5 is secured by: #6 X 1/2" PPH AB (Qty. 1/per) (237-5805-00)
Note: *Item 5, Fuse Clip Holder (Socket) 205-5000-01 is part of a set of 12 (205-5000-12). You can order them as individuals (...-01) or a set of 12 (...-12).*

6A	Diode Terminal Strip 2-Lug (810) Isolated	0	055-5203-00
6B	Diode Terminal Strip 3-Lug (813) Isolated	1	055-5204-03
6C	Diode Terminal Strip 5-Lug (824) Isolated	1	055-5204-05

Items 6B–6C are secured by: #6 X 3/8 HWH AB Zinc (Qty. 1-2/per) (234-5000-00)
Item 6B (Qty. 1) located in Cabinet. ***Note:*** *1N4004 Diodes (112-5003-00) are used in all Diode applications. 1N4001 Diodes can be used for Switches and/or Lamps.*

Nr.	MISC. BRACKETS (BELOW)	QTY.	SPI PART Nr.
7	Bracket, Playfield Support Slide	2	535-6862-05

Item 7 is secured by: #10 X 1/2" HWH A (Zinc) (Qty. 2/per) (237-5817-00),
#8-32 X 5/8" SHWH Swage (Zinc) Wax (Qty. 1/per) (237-5975-03) **and**
#8-32 T-Nut (Qty. 1/per) (240-5101-00)

8	Bracket, Edge Slide (Extended)	2	535-5988-01

Item 8 is secured by: #4 X 1/2" PFH (Zinc) (Qty. 5/per) (237-5840-00) **and**
#8-32 T-Nut (Qty. 2/per) (240-5101-00)

9	Bracket, Pivot Pin Welded Assembly	2	500-5329-03

Item 9 is secured by: #8-32 X 5/8" SHWH Swage (Zinc) Wax (Qty. 2/per) (237-5975-03)

10	Bracket, Back Panel Mounting	2	535-8964-00

Item 10 is secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2/per) (234-5101-00) **and**
#8-32 T-Nut (Qty. 2/per) (240-5101-00) ***For a 3D View :*** *See the Blue Pages, Page b 23.*

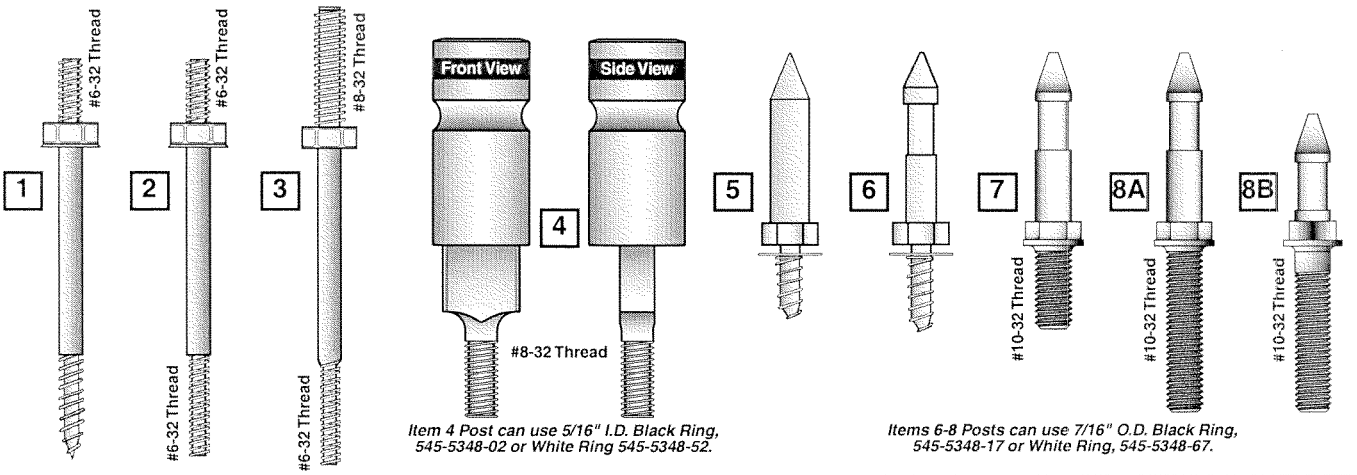
11	Bracket, Hole Protect *(center up-post)*	0	535-0289-00

Item 11 secured under the playfield by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2) (234-5101-00)

12	Tie Post (White Nylon) 3-1/2"	0	545-5253-01

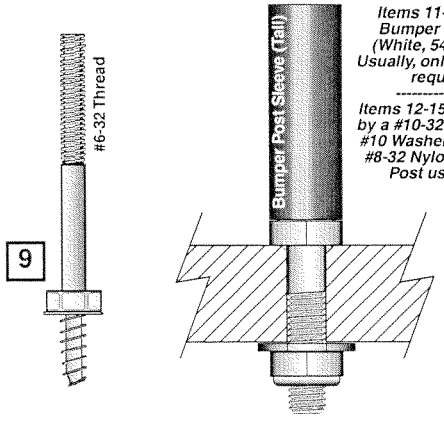
Item 12 is secured by: #6 X 5/8" SHWH AB Green (Qty. 1/per) (234-5002-00) **and**
wiring with Cable Tie, 5-1/2" (Qty. 1/per) (040-5001-02)

Playfield - Metal Posts & Fin Shank Screws (Actual Size) †



Item 4 Post can use 5/16" I.D. Black Ring, 545-5348-02 or White Ring 545-5348-52.

Items 6-8 Posts can use 7/16" O.D. Black Ring, 545-5348-17 or White Ring, 545-5348-67.



Items 11-16 & 18 Posts can use a Black Bumper Post Sleeve (Tall), 545-5308-00 (White, 545-5308-08 or Red, 545-5308-22) Usually, only Posts which are in the ball path require a Bumper Post Sleeve.

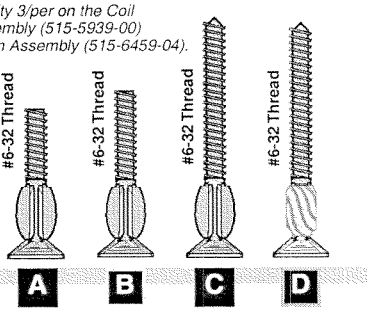
Items 12-15 & 18 Posts are typically secured by a #10-32 Nylon Stop Nut, 240-5203-00 and #10 Washer, 242-5010-00 (Item 11 Post use a #8-32 Nylon Stop Nut, 240-5102-00; Item 16 Post use a #8-32 T-Nut, 240-5101-00).

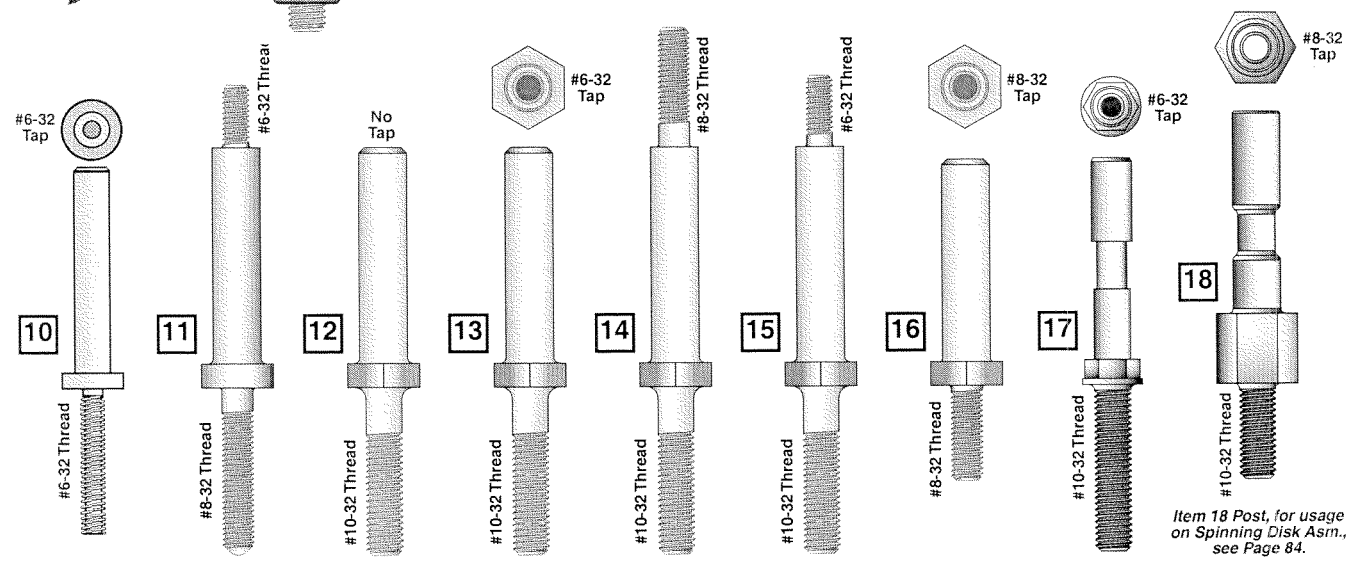
A & B ***Items A & B Note:*** *Typically used to secure Hex Spacers onto the Playfield Wood or Back Panel.*

C ***Item C Note:*** *Quantity 4 on bottom Cabinet Speaker Grill (Qty. 4) (also requires #6-32 Nylon Stop Nut, 240-5005-00).*

D ***Item D Note:*** *Quantity 3/per on the Coil Bracket Welded Assembly (515-5939-00) in the Bumper Bottom Assembly (515-6459-04).*

A - D ***Items A-D Note:*** *The "Fins" keep the screw from turning inside the wood hole.*





Item 18 Post, for usage on Spinning Disk Asm., see Page 84.

Parts Identification

Nr.	METAL POSTS	SPI PART Nr.
1	Post [Fasten] #6-32 Thread // Wood Screw	530-5010-02
2	Post [Fasten] #6-32 Thread // #6-32 Thread	530-5012-02
3	Post [Fasten] #8-32 Thread // #6-32 Thread	530-5008-00
4	Post Brass [Adjustable, Sliding] #8-32 Thread	530-5621-00
5	Mini-Post Wood Screw (no cut-away)	530-5004-01
6	Mini-Post Wood Screw	530-5004-00
7	Mini-Post Machine Scr. // #10-32 .4" Thread	530-5005-01
8A	Mini-Post MS // #10-32 .875" Thread	530-5005-00
8B	Mini-Post Short MS // #10-32 .875" Thread	530-5749-00
9	Post [Fasten] #6-32 Thread // Wood Screw	530-5263-01
10	Post #6-32 Tap // #6-32 Thread	530-5127-00
11	Post [Fasten] #6-32 Thread // #8-32 Thread	530-5007-00

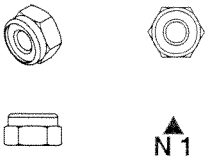
Nr.	METAL POSTS	SPI PART Nr.
12	Post [Hex Base] NO TAP // 10-32 Thread	530-5332-00
13	Post [Hex Bs.] #6-32 TAP // #10-32 Thread	530-5332-01
14	Post [Hex Bs.] #8-32 Thread // #10-32 Thr.	530-5332-02
15	Post [Hex Bs.] #6-32 Thread // #10-32 Thr.	530-5332-03
16	Post [Hex Bs.] #8-32 TAP // #8-32 Thread	530-5332-04
17	Post [Hex Bs.+Groove] #6-32 TAP // #10-32 Thr.	530-5679-00
18	Post [Hex Bs.+Groove] #8-32 TAP // #10-32 Thr.	530-5753-00

Nr.	FIN SHANK SCREWS	SPI PART Nr.
A	#6-32 X 3/4" Fin Shank Screw	237-5921-02
B	#6-32 X 7/8" Fin Shank Screw	237-5921-04
C	#6-32 X 1¼" Fin Shank Screw	237-5883-00
D	#6-32 X 1 3/16" Spiral Fin Shank Screw	237-5957-00

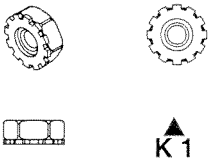
NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

Playfield - Nylon Stop, KEPS, Hex, T-, Flange, Pal* & Wing Nuts* (Actual Size) †

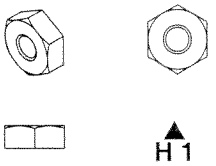
Nr.	NYLON STOP NUTS*	SPI PART Nr.
N1	#6-32 Nylon Stop Nut	240-5005-00
N2	#6-32 N.S. Nut *(with 1/4" Hex Body)*	240-5010-00
N3	#8-32 Nylon Stop Nut	240-5102-00
N4	#10-32 Nylon Stop Nut	240-5203-00
N5	#10-24 Nylon Stop Nut	240-5206-00
	*Item **N5** used with #10-24 X 1-3/4" Carriage Bolt Square Neck Black (231-5022-00) located in the Cabinet for the Roto Lock (Male) (355-5006-01).*	
N6	#4-40 Nylon Stop Nut	240-5303-00
N7	#4-40 *(18/8 Stainless)* Nylon Stop Nut	240-5303-01
N8	5/16"-18 Nylon Stop Nut	240-5316-00



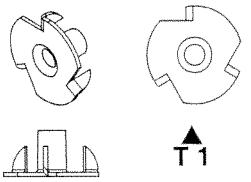
Nr.	KEPS NUTS*	SPI PART Nr.
K1	#6-32 Keps Nut *(with Star Washer)*	240-5008-00
K2	#6-32 Keps Nut *(with 1/4" Hex Body)*	240-5011-00
K3	#8-32 Keps Nut	240-5104-00
K4	#10-32 Keps Nut	240-5208-00
K5	#10-24 Keps Nut	240-5207-00
K6	#4-40 Keps Nut	240-5318-00



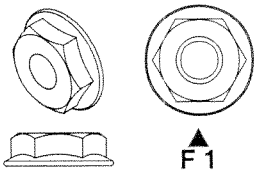
Nr.	HEX NUTS*	SPI PART Nr.
H1	#6-32 Hex Nut *(No Star Washer)*	240-5004-00
H2	#8-32 Hex Nut	240-5103-00
H3	#10-32 Hex Nut	240-5201-00
H4	#10-24 Hex Nut	240-5202-00
	*Item **H4** used with #10-24 X 1" Carriage Bolt Square Neck Black (231-5021-00) located in the Cabinet for the Side Armor Rear (towards Backbox).*	
H5	#10-32 X 3/8" Hex Nut	240-5209-00
H6	3/4-16 Hex Nut	240-5315-00
H7	#2-56 Hex Nut	240-5301-00
H8	7/8"-14 Hex Nut	240-5317-00



Nr.	T-NUTS*	SPI PART Nr.
T1	#6-32 T-Nut	240-5002-00
T2	#6-32 T-Nut *(with Side Cut Off)*	240-5002-01
T3	#8-32 T-Nut	240-5101-00
T4	#10-32 *(Black Oxide)* T-Nut	240-5007-00
T5	#10-32 T-Nut *(with Side Cut Off)*	240-5205-00
T6	#10-32 X 5/16" 3-Prong T-Nut	240-5204-00
T7	#10-24 T-Nut	240-5200-00



Nr.	FLANGE NUT*	SPI PART Nr.
F1	1/4" X 20 Flange Nut	240-5300-00
	*Item **F1** used with 1/4-20 X 1-1/4 Sq. Neck Carriage Bolt Black (231-5003-00) located in the Cabinet for the Side Armor (Front) and Pivot Hinges.*	



Nr.	PAL NUTS*	SPI PART Nr.
P1	Plastic Pal Nut *(on Flipper Buttons)*	240-5003-00
P2	Metal Pal Nut *(on Flipper Buttons)*	240-5003-01

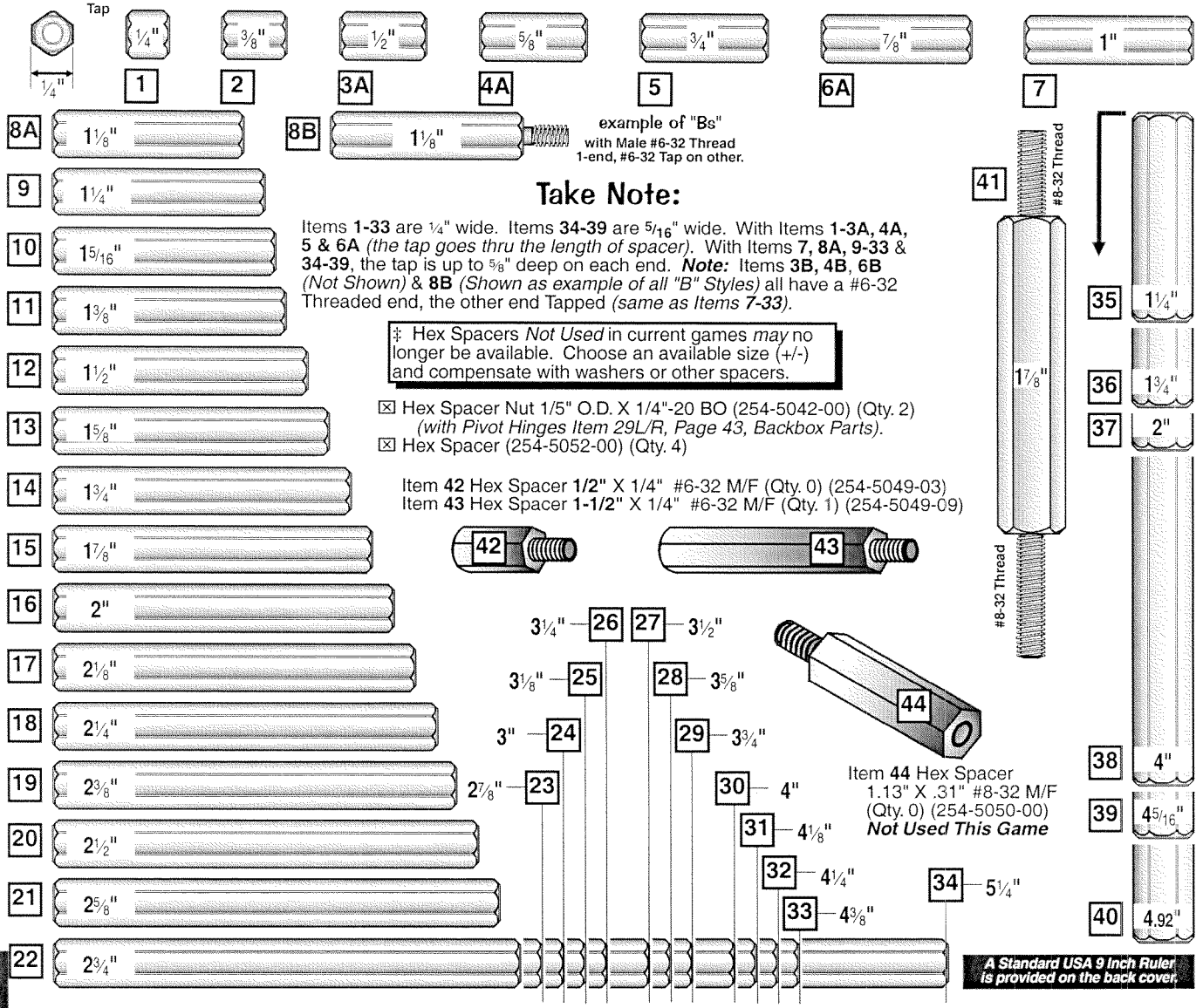
* *Not Shown*

Nr.	WING NUTS*	SPI PART Nr.
W1	#6-32 Wing Nut	240-5001-00
W2	#8-32 Wing Nut	240-5100-00
W3	#10-24 Wing Nut	240-5211-00
W4	1/4"-20 Wing Nut	240-5302-00
W5	1/4"-20 Toggle Wing	240-5324-00

* *Not Shown*

NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

Playfield Top - Hex Spacers (Actual Size) †



Take Note:

Items **1-33** are ¼" wide. Items **34-39** are 5/16" wide. With Items **1-3A, 4A, 5 & 6A** *(the tap goes thru the length of spacer).* With Items **7, 8A, 9-33** & **34-39**, the tap is up to ⅝" deep on each end. ***Note:*** Items **3B, 4B, 6B** *(Not Shown)* & **8B** *(Shown as example of all "B" Styles)* all have a #6-32 Threaded end, the other end Tapped *(same as Items 7-33).*

‡ Hex Spacers *Not Used* in current games *may* no longer be available. Choose an available size (+/-) and compensate with washers or other spacers.

☒ Hex Spacer Nut 1/5" O.D. X 1/4"-20 BO (254-5042-00) (Qty. 2) *(with Pivot Hinges Item 29L/R, Page 43, Backbox Parts).*
☒ Hex Spacer (254-5052-00) (Qty. 4)

Item **42** Hex Spacer **1/2"** X 1/4" #6-32 M/F (Qty. 0) (254-5049-03)
Item **43** Hex Spacer **1-1/2"** X 1/4" #6-32 M/F (Qty. 1) (254-5049-09)

Item **44** Hex Spacer 1.13" X .31" #8-32 M/F (Qty. 0) (254-5050-00) ***Not Used This Game***

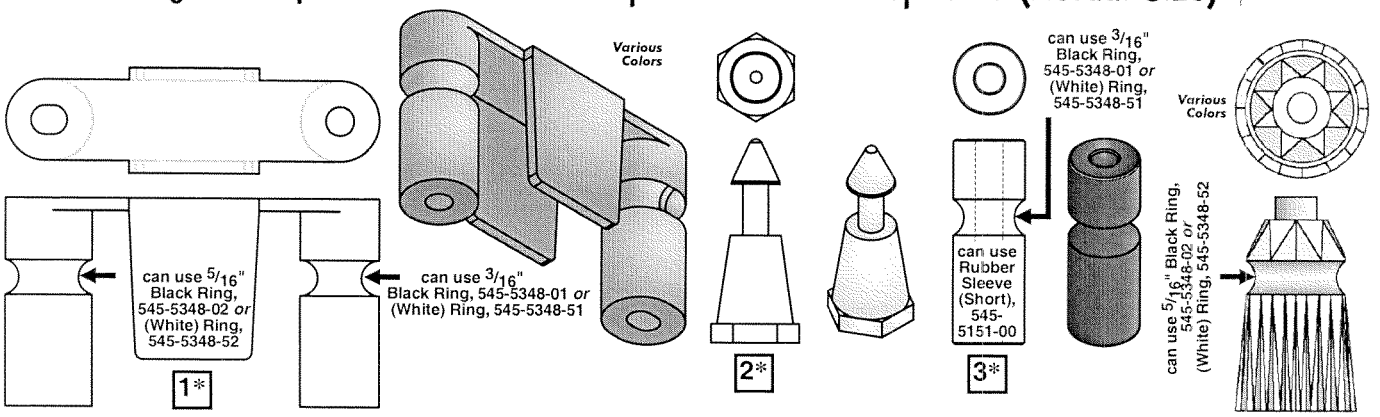
A Standard USA 9 Inch Ruler is provided on the back cover.

Parts Identification

Nr.	HEX SPACERS	SPI PART Nr.	Nr.	HEX SPACERS	SPI PART Nr.
1	¼" X ¼" : #6-32 Tap *(both ends)*	254-5008-00	19	2⅜" X ¼" : #6-32 Tap *(both ends)*	254-5008-28
2	⅜" X ¼" : #6-32 Tap *(both ends)*	254-5008-12	20	2½" X ¼" : #6-32 Tap *(both ends)*	254-5008-16
3A	½" X ¼" : #6-32 Tap *(both ends)*	254-5008-03	21	2⅝" X ¼" : #6-32 Tap *(both ends)*	254-5008-08
3B*	Identical to **3A** *with #6-32 Thread end*	254-5024-03	22	2¾" X ¼" : #6-32 Tap *(both ends)*	254-5008-15
4A	⅝" X ¼" : #6-32 Tap *(both ends)*	254-5008-02	23	2⅞" X ¼" : #6-32 Tap *(both ends)*	254-5008-31
4B*	Identical to **4A** *with #6-32 Thread end*	254-5024-02	24	3" X ¼" : #6-32 Tap *(both ends)*	254-5008-14
5	¾" X ¼" : #6-32 Tap *(both ends)*	254-5008-04	25	3⅛" X ¼" : #6-32 Tap *(both ends)*	254-5008-19
6A	⅞" X ¼" : #6-32 Tap *(both ends)*	254-5008-05	26	3¼" X ¼" : #6-32 Tap *(both ends)*	254-5008-26
6B*	Identical to **6A** *with #6-32 Thread end*	254-5024-05	27	3½" X ¼" : #6-32 Tap *(both ends)*	254-5008-27
7	1" X ¼" : #6-32 Tap *(both ends)*	254-5008-06	28	3⅝" X ¼" : #6-32 Tap *(both ends)*	254-5008-25
8A	1⅛" X ¼" : #6-32 Tap *(both ends)*	254-5008-17	29	3¾" X ¼" : #6-32 Tap *(both ends)*	254-5008-36
8B	Identical to **8A** *with #6-32 Thread end*	254-5024-17	30	4" X ¼" : #6-32 Tap *(both ends)*	254-5008-21
9	1¼" X ¼" : #6-32 Tap *(both ends)*	254-5008-11	31	4⅛" X ¼" : #6-32 Tap *(both ends)*	254-5008-23
10	1 5/16" X ¼" : #6-32 Tap *(both ends)*	254-5008-34	32	4¼" X ¼" : #6-32 Tap *(both ends)*	254-5008-30
11 ‡	1⅜" X ¼" : #6-32 Tap *(both ends)*	254-5008-33	33	4⅜" X ¼" : #6-32 Tap *(both ends)*	254-5008-29
12	1½" X ¼" : #6-32 Tap *(both ends)*	254-5008-09	34	5¼" X ¼" : #6-32 Tap *(both ends)*	254-5008-35
13 ‡	1⅝" X ¼" : #6-32 Tap *(both ends)*	254-5008-13	35	1¼" X 5/16" : #6-32 Tap *(both ends)*	254-5018-09
14	1¾" X ¼" : #6-32 Tap *(both ends)*	254-5008-10	36	1¾" X 5/16" : #6-32 Tap *(both ends)*	254-5018-06
15 ‡	1⅞" X ¼" : #6-32 Tap *(both ends)*	254-5008-20	37	2" X 5/16" : #6-32 Tap *(both ends)*	254-5018-07
16	2" X ¼" : #6-32 Tap *(both ends)*	254-5008-07	38	4" X 5/16" : #6-32 Tap *(both ends)*	254-5018-03
17	2⅛" X ¼" : #6-32 Tap *(both ends)*	254-5008-32	39	4 5/16" X 5/16" : #6-32 Tap *(both ends)*	254-5018-00
18	2¼" X ¼" : #6-32 Tap *(both ends)*	254-5008-18	40	4.92" X 5/16" : #6-32 Tap *(both ends)*	254-5018-04

NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

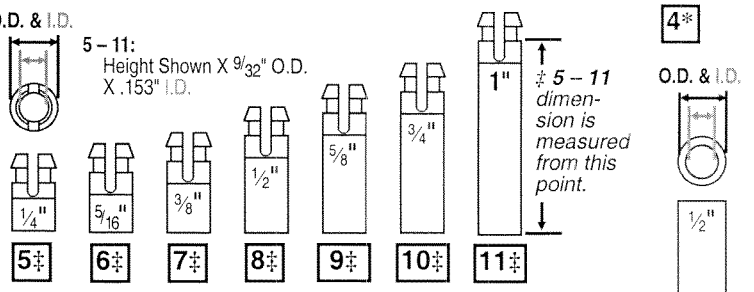
Playfield Top - Plastic Posts & Spacers & Metal Spacers (Actual Size) †


Various Colors
can use 5/16" Black Ring, 545-5348-02 or (White) Ring, 545-5348-52
can use 3/16" Black Ring, 545-5348-01 or (White) Ring, 545-5348-51
1*
2*
can use 3/16" Black Ring, 545-5348-01 or (White) Ring, 545-5348-51
can use Rubber Sleeve (Short), 545-5151-00
3*
Various Colors
can use 5/16" Black Ring, 545-5348-02 or (White) Ring, 545-5348-52
4*

PLASTIC PART COLOR CHART

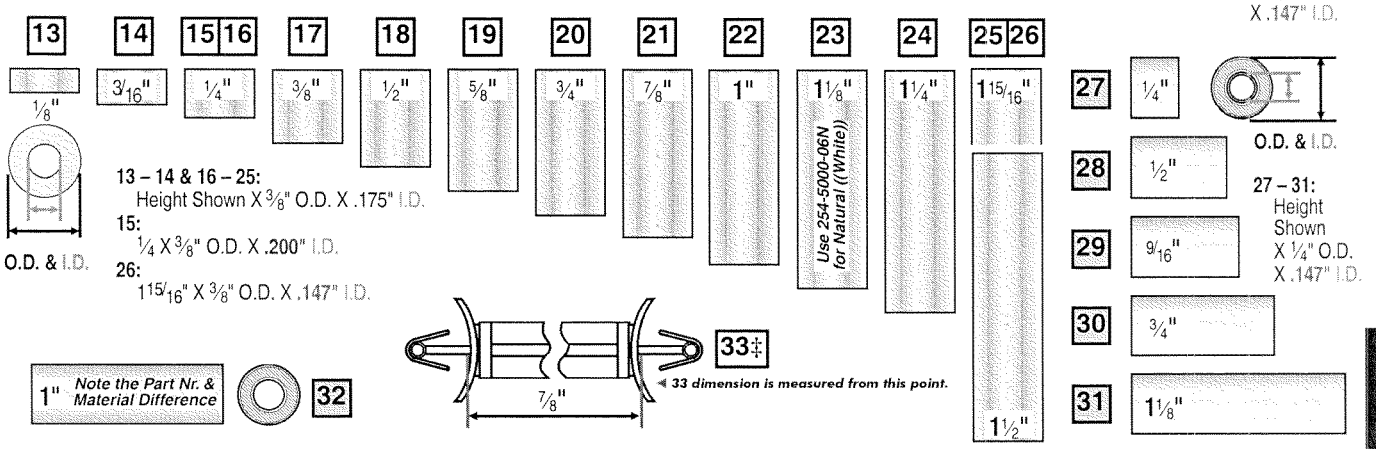
Nr.	Color	Nr.	Color	Nr.	Color
-00	Black	-06	Yellow	-12	Fluor. Blue
-01	Clear	-07	Orange	-13	Teal Green
-02	Red	-08	(White)	-14	(Gray)
-03	Amber	-09	Purple	-15	Luminescent
-04	Green	-10	Fluor. Org.	-16	Gold
-05	Blue	-11	Fluor. Green		

* Items **1 & 5** come in various colors. *The "**-XX**" (the last 2-Digits in the Part Number)*, should be replaced with the desired 2-Digit number from the above Color Chart *(may not be available in every color; other colors used in prior games may no longer be available.) Call for availability.*



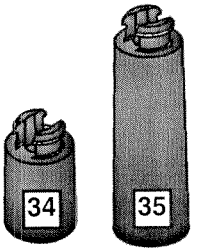
‡ *Items **5** through **11** dimensions are measured from bottom to just under the cut-away. Item **33** dimension is measured from top-to-top of curve. See pictorials with Items **11** & **33**.*

12: ½ X ¼" O.D. X .147" I.D.



Nr.	PLASTIC POSTS & SPACERS	SPI PART Nr.
1**	Top Lane Plastic Mini-Lite Hood (XX-Color)	550-5061-XX
2**	Mini-Jewel Plastic Post (XX-Color)	550-5052-XX
3**	1 1/16" 1-Groove Plastic Post (XX-Color)	550-5059-XX
	*Item 3 Only : Use Part Number (550-5059-00) for color **Black**.*	
4**	1-Groove Jewel Plastic Post (XX-Color)	550-5034-XX
	Items 3 & 4 typically sec'd by: Post Fastening Scr. #6-32 Top / #6-32 Bot. (530-5012-02). *Use Color Chart above for last 2-digits. Not all colors are available.*	
	Items 1–4 Note: Use Color Chart above for last 2-digits. Not all colors are available.	
5 ‡	1/4" Self Retain. Plastic Spacer (White)	254-5007-02
6 ‡	9/16" Self Retain. Plastic Spacer (White)	254-5007-05
7 ‡	3/8" Self Retain. Plastic Spacer (White)	254-5007-01
8 ‡	1/2" Self Retain. Plastic Spacer (White)	254-5007-04
9 ‡	5/8" Self Retain. Plastic Spacer (White)	254-5007-00
10 ‡	3/4" Self Retain. Plastic Spacer (White)	254-5007-03
11 ‡	1" Self Retain. Plastic Spacer (White)	254-5007-06
12	1/2" X 1/4" O.D. X .147" I.D. Pls. Spacer (White)	254-5000-03
13	1/8" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-19
14	3/16" X 3/8" O.D. X .175" I.D. Pls. Spcr. (Gray)	254-5000-18
15	1/4" X 3/8" O.D. X **.200"** I.D. Pls. Spcr. (Gray)	254-5000-**02**
16	1/4" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-09
17	3/8" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-12
18	1/2" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-01
19	5/8" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-14
20	3/4" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-07

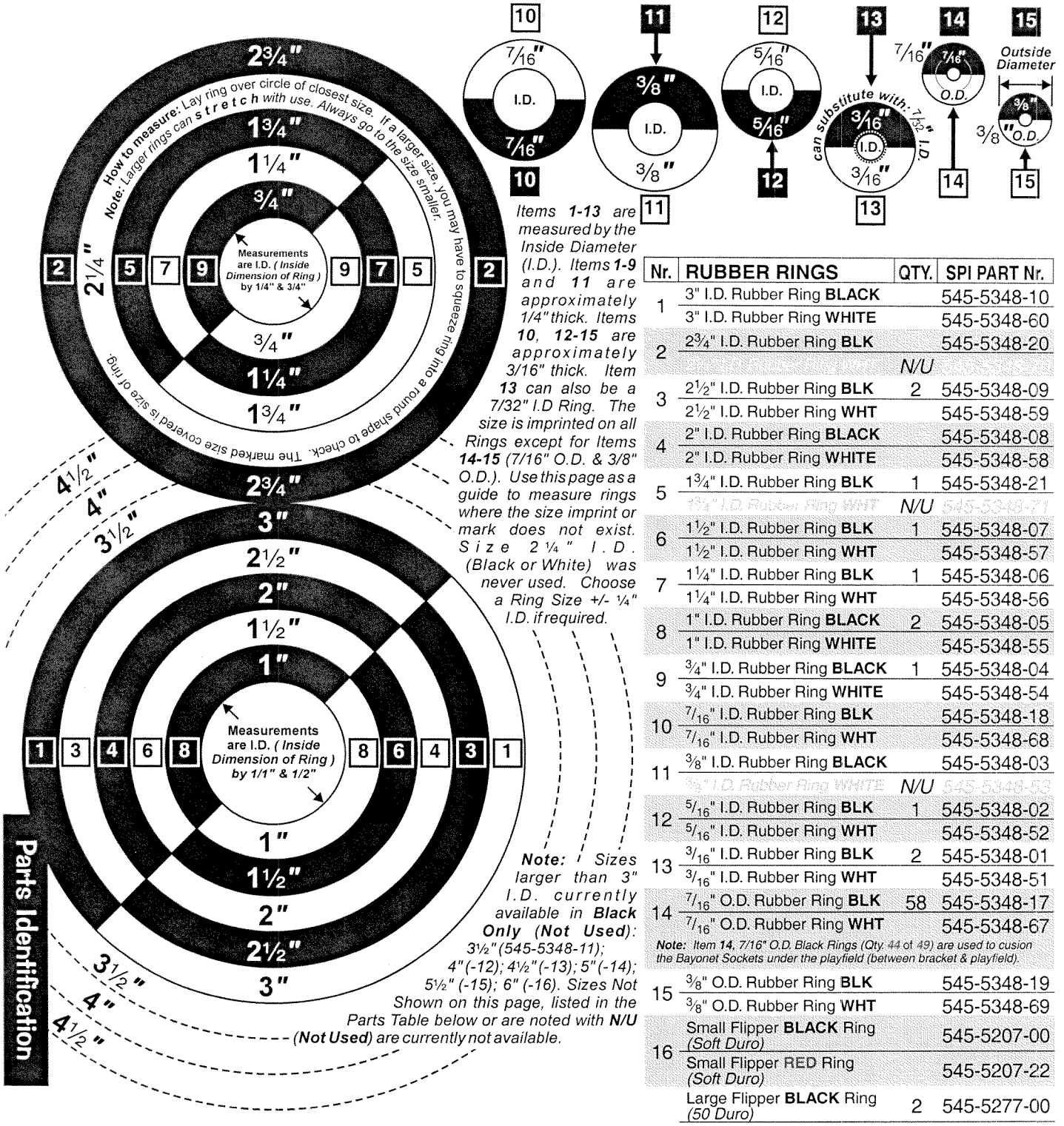
Nr.	PLASTIC POSTS & SPACERS	SPI PART Nr.
21	7/8" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-11
22	1" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-04
23	1 1/8" X 3/8" O.D. X .175" I.D. Pls. Spcr. (Gray)	254-5000-06
	*Item 23 Only : Add the letter "**N**" for color Natural (if available) or "**B**" for color Black.*	
24	1 1/4" X 3/8" O.D. X .175" I.D. Pls. Spcr. (Gray)	254-5000-05
25	1 1/2" X 3/8" O.D. X .175" I.D. Pls. Spcr. (Gray)	254-5000-08
26	1 15/16" X 3/8" O.D. X .147" I.D. Plastic Spacer (Gray)	254-5000-15
	Items 13-26 Only : Spacers may also be Black in color (random from vendor).	
	Not Shown and listed for reference only : 254-5000-10: 2 1/2" X 3/8" O.D. X .175" I.D. -13: 5/16" X 1/4" X .147"; -16: 5/16" X 5/16" X .190"; -17: 1 3/4" X 3/8" O.D. X .175" I.D.	
27	1/4" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5014-03
28	1/2" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5014-00
29	9/16" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5014-04
30	3/4" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5014-01
31	1 1/8" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5014-02
32	1" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5001-00
33‡	7/8" Plastic Spacer Support *(Dual-Locking)*	254-5039-14
34	Plastic Spacer, .5" Plastic Mounting	254-5054-00
35	Plastic Spacer, 1.13" Plastic Mounting	254-5054-01



NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE P/N REQUIRED.

Parts Identification

Playfield - Rubber Parts Black ■, White □ & Blue ■ (Rings Actual Size) †



*Items **1-13** are measured by the Inside Diameter (I.D.). Items **1-9** and **11** are approximately 1/4" thick. Items **10, 12-15** are approximately 3/16" thick. Item **13** can also be a 7/32" I.D Ring. The size is imprinted on all Rings except for Items **14-15** (7/16" O.D. & 3/8" O.D.). Use this page as a guide to measure rings where the size imprint or mark does not exist. Size 2¼" I.D. (Black or White) was never used. Choose a Ring Size +/- ¼" I.D. if required.*

***Note:** Sizes larger than 3" I.D. currently available in **Black Only (Not Used)**: 3½"(545-5348-11); 4"(-12); 4½"(-13); 5"(-14); 5½" (-15); 6" (-16). Sizes Not Shown on this page, listed in the Parts Table below or are noted with **N/U** (**Not Used**) are currently not available.*

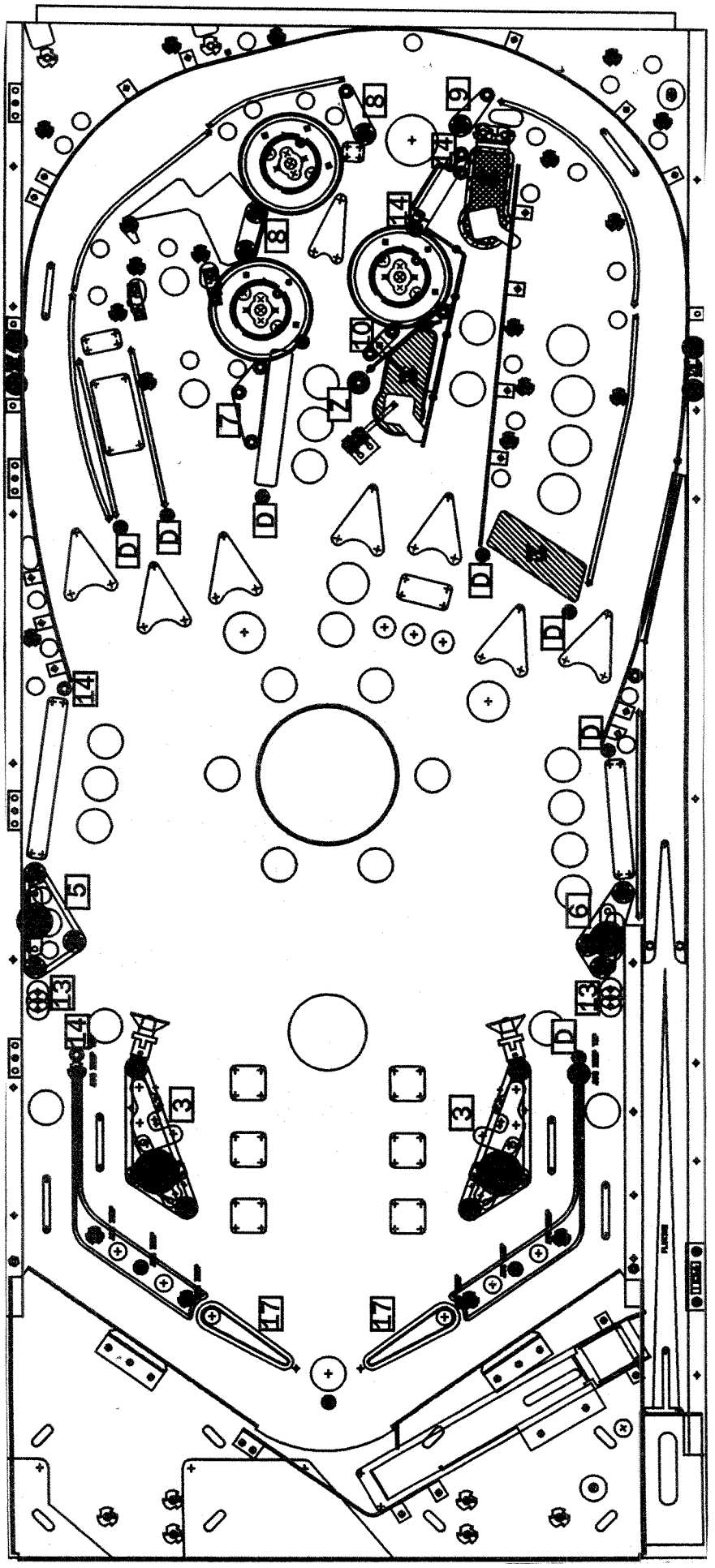
Nr.	RUBBER RINGS	QTY.	SPI PART Nr.
1	3" I.D. Rubber Ring **BLACK**		545-5348-10
	3" I.D. Rubber Ring **WHITE**		545-5348-60
2	2¾" I.D. Rubber Ring **BLK**		545-5348-20
	2¾" I.D. Rubber Ring **WHT**	N/U	545-5348-70
3	2½" I.D. Rubber Ring **BLK**	2	545-5348-09
	2½" I.D. Rubber Ring **WHT**		545-5348-59
4	2" I.D. Rubber Ring **BLACK**		545-5348-08
	2" I.D. Rubber Ring **WHITE**		545-5348-58
5	1¾" I.D. Rubber Ring **BLK**	1	545-5348-21
	1¾" I.D. Rubber Ring **WHT**	N/U	545-5348-71
6	1½" I.D. Rubber Ring **BLK**	1	545-5348-07
	1½" I.D. Rubber Ring **WHT**		545-5348-57
7	1¼" I.D. Rubber Ring **BLK**	1	545-5348-06
	1¼" I.D. Rubber Ring **WHT**		545-5348-56
8	1" I.D. Rubber Ring **BLACK**	2	545-5348-05
	1" I.D. Rubber Ring **WHITE**		545-5348-55
9	¾" I.D. Rubber Ring **BLACK**	1	545-5348-04
	¾" I.D. Rubber Ring **WHITE**		545-5348-54
10	7/16" I.D. Rubber Ring **BLK**		545-5348-18
	7/16" I.D. Rubber Ring **WHT**		545-5348-68
11	⅜" I.D. Rubber Ring **BLACK**		545-5348-03
	⅜" I.D. Rubber Ring **WHITE**	N/U	545-5348-53
12	5/16" I.D. Rubber Ring **BLK**	1	545-5348-02
	5/16" I.D. Rubber Ring **WHT**		545-5348-52
13	3/16" I.D. Rubber Ring **BLK**	2	545-5348-01
	3/16" I.D. Rubber Ring **WHT**		545-5348-51
14	7/16" O.D. Rubber Ring **BLK**	58	545-5348-17
	7/16" O.D. Rubber Ring **WHT**		545-5348-67
	***Note:** Item **14**, 7/16" O.D. Black Rings (Qty. 44 of 49) are used to cusion the Bayonet Sockets under the playfield (between bracket & playfield).*		
15	⅜" O.D. Rubber Ring **BLK**		545-5348-19
	⅜" O.D. Rubber Ring **WHT**		545-5348-69
16	Small Flipper **BLACK** Ring *(Soft Duro)*		545-5207-00
	Small Flipper RED Ring *(Soft Duro)*		545-5207-22
17	Large Flipper **BLACK** Ring *(50 Duro)*	2	545-5277-00
	Large Flipper **YELLOW** Ring *(50 Duro) (use -06 40 Duro)*		545-5277-04
	Large Flipper **WHITE** Ring *(50 Duro)*		545-5277-08
	Large Flipper RED Ring *(Soft Duro)*		545-5277-22

Take Note:

For Blue Rubber Pads, see the next page and/or the Blue Pages for the assembly the pads are found on for the part number.

Nr.	RUBBER BUMPER PADS	QTY.	SPI PART Nr.
A*	Bumper **BLK** Pad (Lg. w/ grommet)	2	545-5428-00
	*Item **A** are located on Flipper Assemblies. See next page for location.*		
B*	Bumper **BLK** Pad (Sm. w/ grommet)	3	545-5105-00
	*Item **B** are located on multiple assemblies. See next page for location.*		

Nr.	RBR. BUMPER POST SLVS.	QTY.	SPI PART Nr.
D*	Bumper **BLACK** Post Sleeve (Tall)	10	545-5308-00
	Item D in RED use 545-5308-22; Item D in WHITE use 545-5308-08.		
E*	Bumper Post Sleeve (Short)	1	545-5151-00


8
9
14
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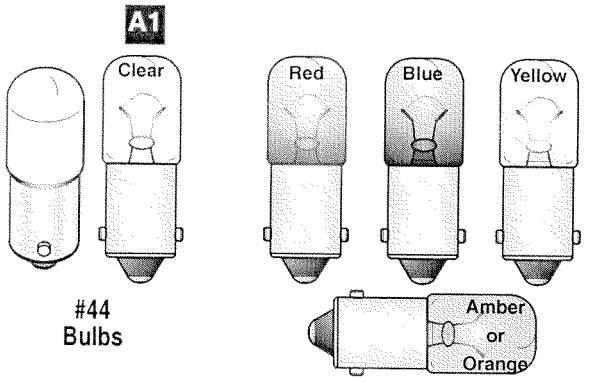
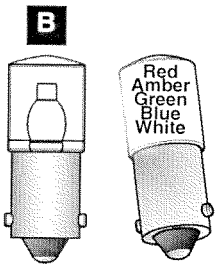
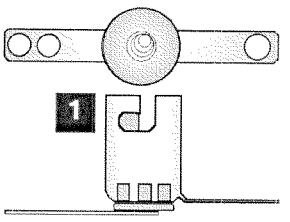
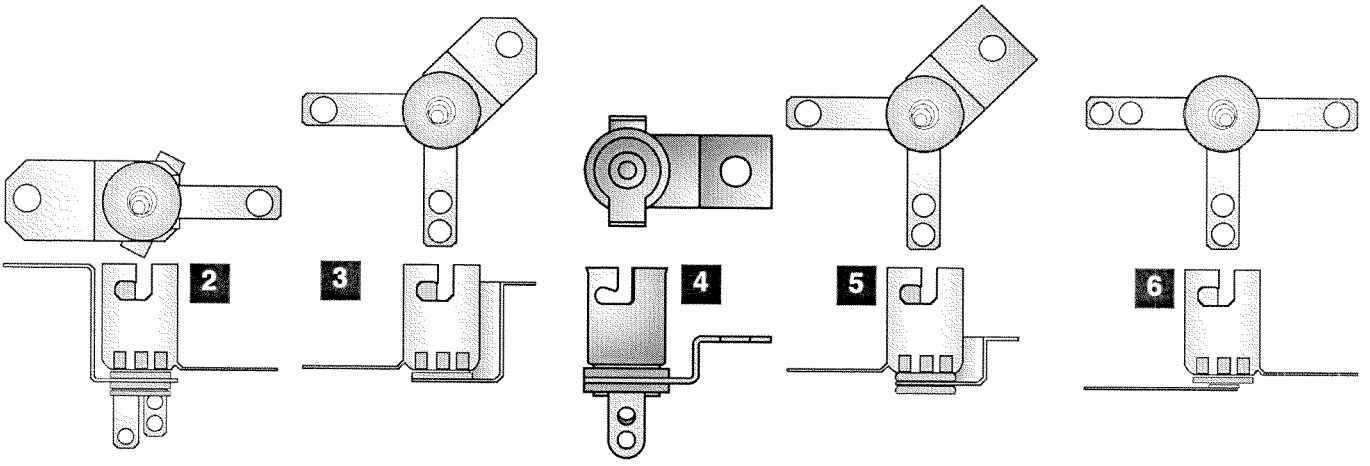
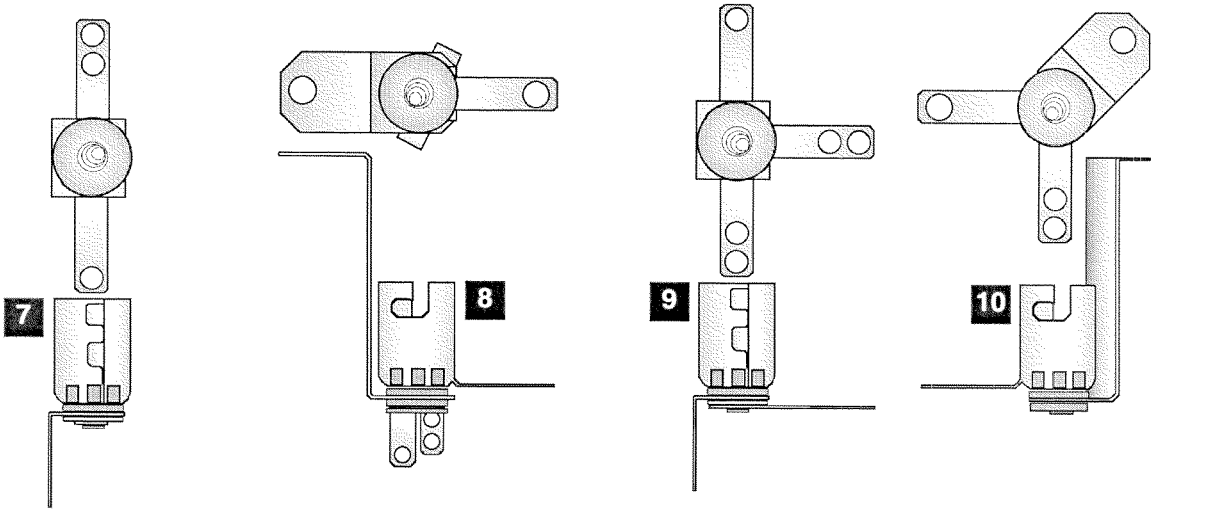
Playfield Top & Bottom - Small Bayonet Sockets & Bulbs ■ (Actual Size) †











Parts Identification

Nr.	BULBS (#44)	SPI PART Nr.
A	#44 Bulb (Clear) *Heavy Filament*	165-5000-44-HF
	#44 Bulb *(replace -XX w/color below)*	165-5053-XX-HF

Item A Note: Amber (165-5053-03-HF); Green (165-5053-04-HF); Yellow (165-5053-06-HF); Red (165-5053-02-HF); Blue (165-5053-05-HF); Orange (165-5053-07-HF)

Nr.	BULBS (LED & #455)	SPI PART Nr.
B	LED Module (WHT) (12.8v 20-25mA) Bynt.	112-5023-08

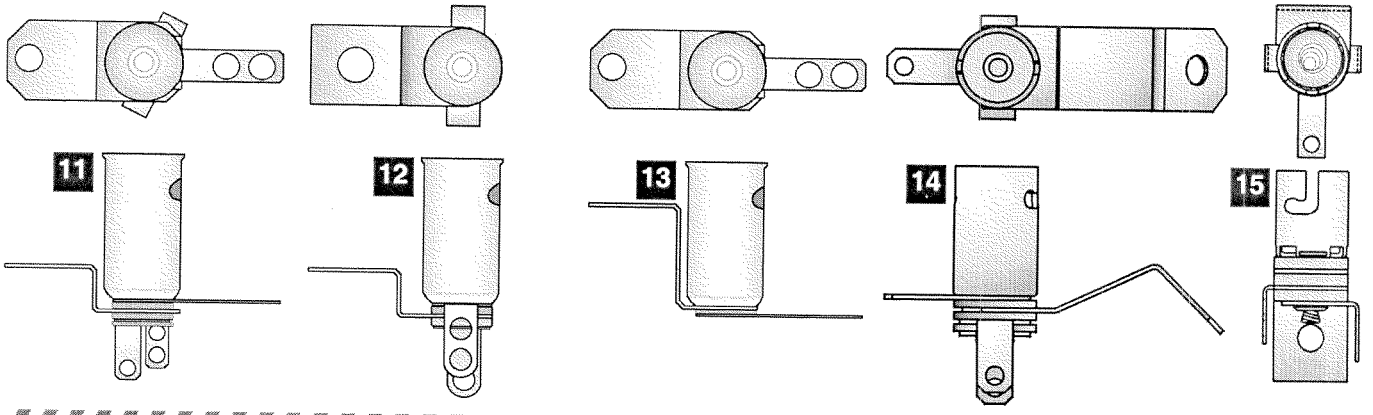
Item B Note: *Different Colors may be available ~*
Red (112-5023-02); Amber (112-5023-03); Green (112-5023-04); Blue (112-5023-05);

Nr.	SMALL BAYONET SOCKETS	SPI PART Nr.
1	2-Lug Staple Down Socket	077-5000-00
2	3-Lug Stand-Up Socket (Med. Brkt.)	077-5008-00
3	2-Lug Stand-Up Socket (Med. Brkt.)	077-5002-00
4	2-Lug Stand-Up Socket (Short Brkt.)	077-5223-00
5	2-Lug Stand-Up Sckt. (Short Bracket)	077-5002-31
6	3-Lug Staple Down Socket	077-5001-00
7	2-Lug Laydown Socket	077-5003-00
8	3-Lug Stand-Up Socket (Tall Bracket)	077-5009-00

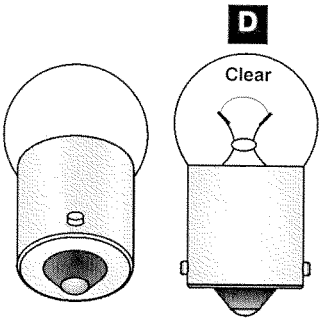
Nr.	SMALL BAYONET SOCKETS	SPI PART Nr.
9	3-Lug Laydown Socket (3 Lugs Flat)	077-5006-00
10	2-Lug Stand-Up Socket (Tall Bracket)	077-5005-00
11	3-Lug Stand-Up Long Shell Socket	077-5013-00
12	2-Lug Stand-Up Lg. Shell Socket (Gls)	077-5031-00
13	1-Lug S-U Lg. Shell Sckt. (Med. Brkt.)	077-5012-00
14	3-Lug S-U Lg. Shell Sckt. (45° Brkt.)	077-5035-00
15	3-Lug Laydown Socket (2 Lugs Bent)	077-5032-00

NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

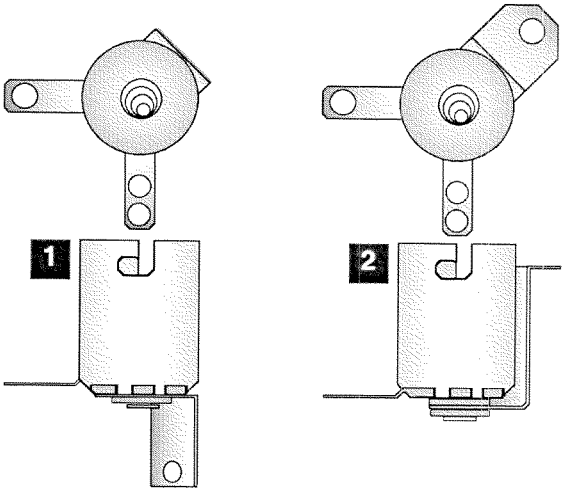
Playfield Top & Bot. - Small Bayonet Sockets & Bulbs ■ (Actual Size) † Continued

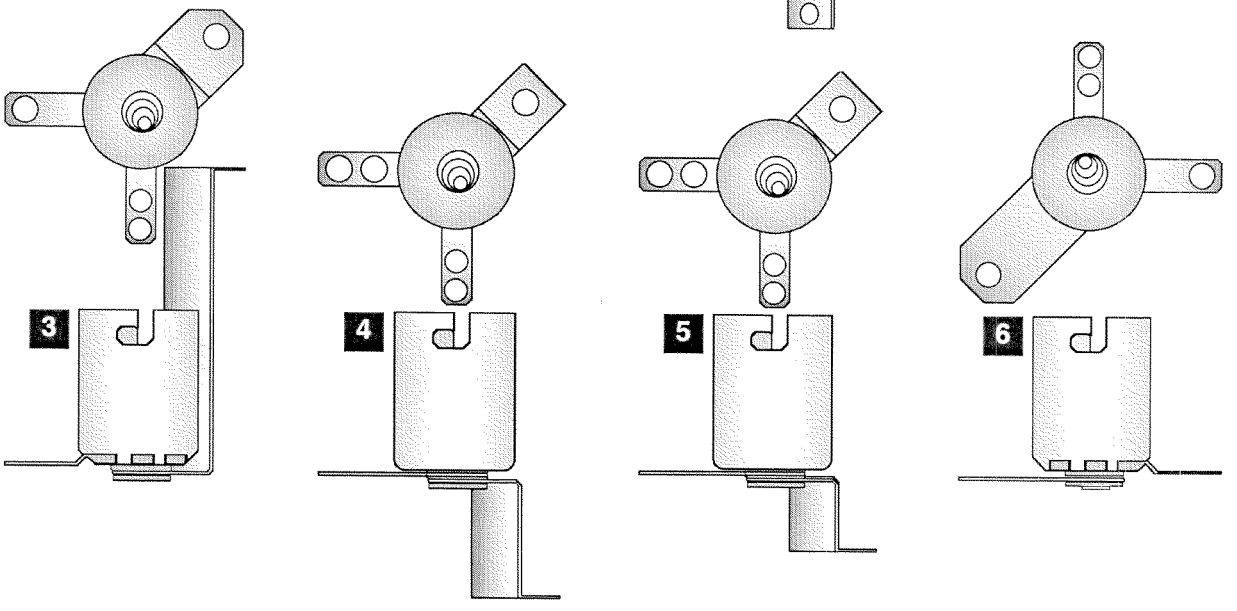


Playfield Bottom - Large Bayonet Sockets & Bulbs ■ (Actual Size) †



#89
Bulb



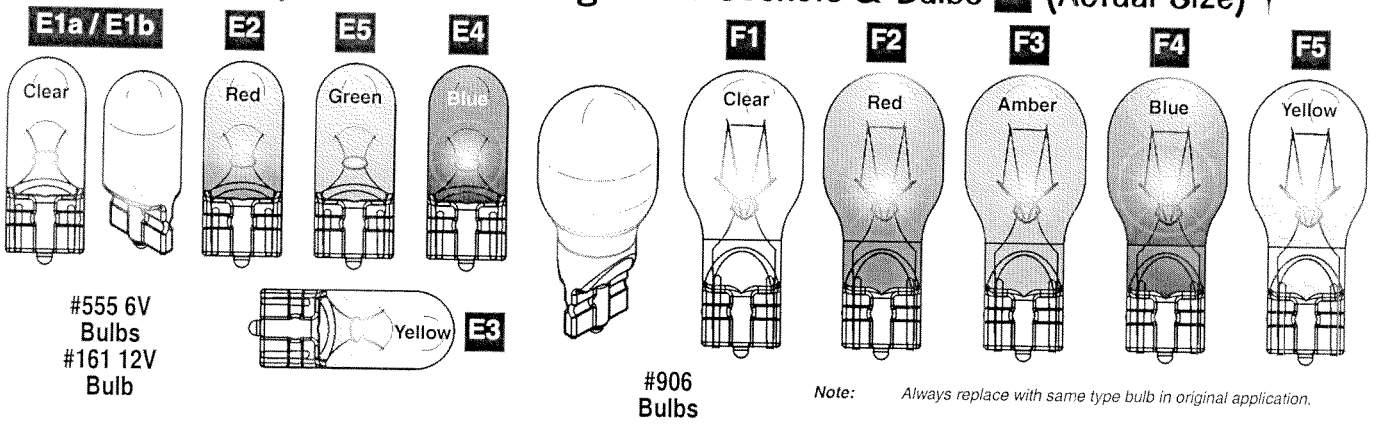


Nr.	BULBS (#89)	SPI PART Nr.
D	#89 Bulb *Heavy Filament*	165-5000-89-HF

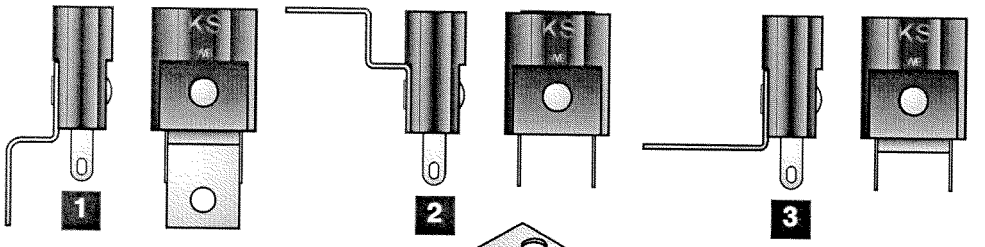
Nr.	LARGE BAYONET SOCKETS	SPI PART Nr.
1	2-Lug Laydown Standard Socket	077-5100-00
2	2-Lug Stand-Up Short Socket	077-5101-00
3	2-Lug Stand-Up Long Socket	077-5102-00
4	2-Lug Stand-Up Rev. Mount Socket	077-5103-00
5	2-Lug Stand-Up Rv. Mnt. Short Socket	077-5106-00
6	2-Lug Straight Leg Socket	077-5107-00

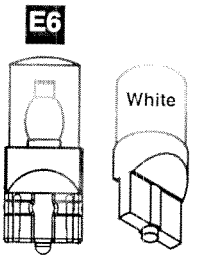
NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

Playfield Top & Bottom - Wedge Base Sockets & Bulbs ■ (Actual Size) †

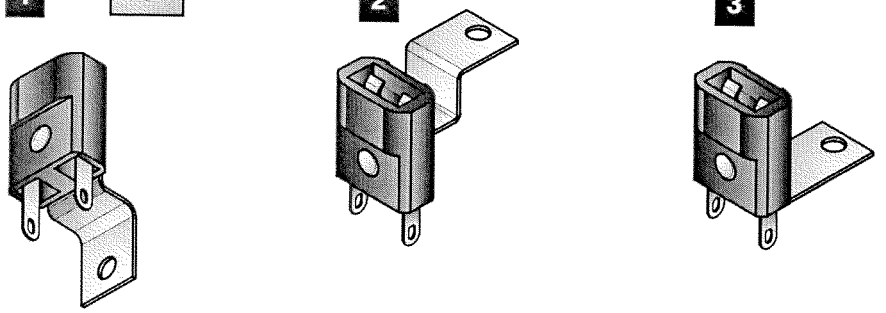


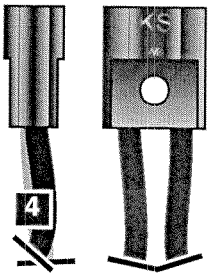
Note: *Always replace with same type bulb in original application.*



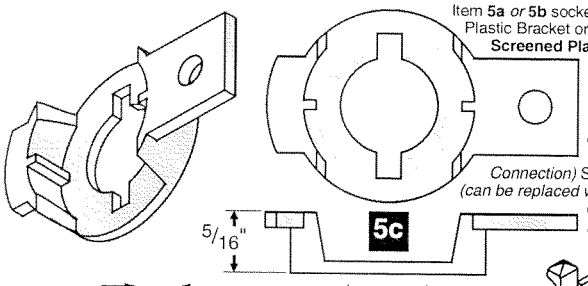


LED Bulb
(Wedge Base)



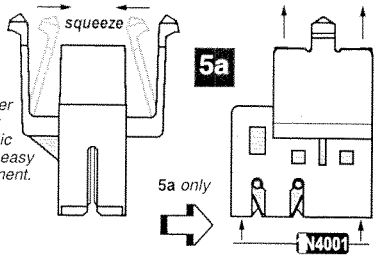


*Item **4** Socket does not require brackets. Old stock may include "L" style brackets (each side); do not secure to assembly.* ***Black Wires (Qty. 2) are 12" each.***

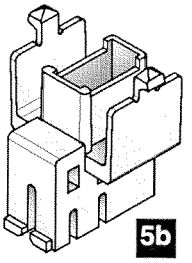


Item **5a** *or* **5b** sockets are secured to the playfield or assembly by Item **5c** Plastic Bracket or *may* also be snapped into specially cut **Clear and / or Screened Plastic Pieces** *or* **Metal Brackets** *(used for multiple mounting of sockets when positioned closely together or in tight areas). If Plastic Pieces or Metal Brackets are used to mount Item **5a** or **5b** Sockets, it will be noted on **Playfield Bottom - Miscellaneous Parts and Brackets**, page earlier in this Chapter.*

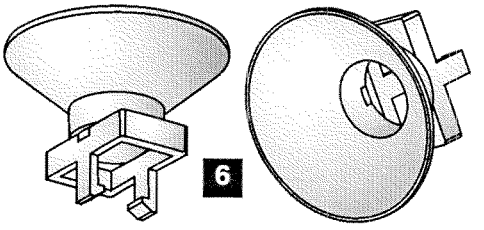
Item **5a** is a solderless **IDC** *(Insulation Displacement Connection)* Socket with a built-in Diode, 1N4003 (112-5003-00) *(can be replaced with 1N4001 Diode, 112-5001-00).* Item **5b** Socket (Yellow) is identical to **5a** (Socket) *except* it does ***NOT REQUIRE*** a diode *(Flash Lamp usage).*



Just squeeze the "side arms" of the socket together and pull away from the plastic or bracket for easy Bulb replacement.



5b *is Yellow with* ***No Diode***



Parts Identification

Nr.	BULBS (#555)	SPI PART Nr.
E1a	#555 Wedge Base Bulb (Clear)	165-5002-00
E2-E5	#555 Wedge Base Bulb (Multi-Color)	165-5054-XX
	Item E2-E5 Bulb Note: *Different Colors available (not used in this game) ~* **Red (165-5054-02); Green (165-5054-04); Blue (165-5054-05); Yellow (165-5054-06);**	
E1b	#161 12V Wedge Base Bulb (Clear)	165-5032-00

Nr.	BULBS (LED & #906)	SPI PART Nr.
E6	LED Module (WHT) **(5v - 6.3v) Wedge Base**	112-5024-08
	Item E6 Bulb Note : *Typically used with Item 4 Socket in Pop Bumpers.*	
F	#906 Wedge Base Bulb (Clear)	165-5004-00
	Item F Note: *Different Colors available (not used in this game) ~* **Red (165-5004-02); Amber (165-5004-03); Blue (165-5004-05); Yellow (165-5004-06)**	

Nr.	WEDGE BASE SOCKETS	SPI PART Nr.
1	Wedge Base Socket (Laydown)	077-5026-01
2	Wedge Base Socket (Offset)	077-5029-00
3	Wedge Base Socket (Laydown GI)	077-5030-00
4	W.B. Socket (Bumpers/Special App.)	077-5206-00

Nr.	WEDGE BASE SOCKETS	SPI PART Nr.
5a	IDC Snap-On Socket (Biege)	077-5216-00
5b	IDC Snap-On Socket ***No Diode*** (Yel.)	077-5216-**01**
5c	5/16" Ht. Bracket (White)	545-5760-18
6	Light Reflector (Silver Plst.) REF540N	545-5409-01
	Note Item 6 : *Typically used with Item 1 (but will fit on any similiar Wedge Base Socket).*	

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